

# Supply Chain Engagement: from Risk to Impact

Fairphone's Suppliers,  
Smelters and Refiners

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# 1 Introduction

## Transparency: the first step in fairer supply chains

Fairphone was founded to create a positive impact on the value chain of consumer electronics. We began making phones because we knew there were more ethical and environmentally sound ways to manufacture them and we set out to prove it: from the inside. A crucial step to setting an example to the rest of industry was to publish what we discovered, share the choices we made, and raise awareness of alternatives.

Smartphones are intricate products made up of thousands of different components. Each of these parts comes from different suppliers and contain a wide variety of materials. As a result, our supply chain includes mines, smelters, refiners and multiple tiers of manufacturers that span the entire globe. Many in the industry would call this an impossible task, yet step by step, we are mapping our supply chain to understand exactly what goes into our phone and where it comes from.

By learning more about the hundreds of actors and locations involved in our smartphone supply chain, we can take an informed approach to making a difference. For Fairphone, that goes beyond audits, assessments and compliance; our mission drives us to go beyond the baseline of due diligence legislation and industry best practice. This means sourcing from more responsible mines, investing in their improvement, actively connecting them to our supply chain, and inviting others in the industry to do the same. It also means finding and engaging with suppliers that share our values and initiating improvement programs at their factories—and beyond.

This document offers an introduction to our supply chain approach, and a summary of what we have learned about the Fairphone supply chains to date. It is an update of our [Fairphone 4 supply chain engagement report published in 2023](#). Following our expanding product portfolio, the scope of this report has expanded and now offers insights on the supply

chains of Fairphone 4, Fairphone 5, Fairbuds and Fairbuds XL.

The report examines our:

### **Overall approach to due diligence**

The process we go through to ensure that our due diligence practices effectively lead to positive impact and improved outcomes for people and planet, in line with internationally recognised good practice standards such as the UN Guiding Principles on Business and Human Rights.

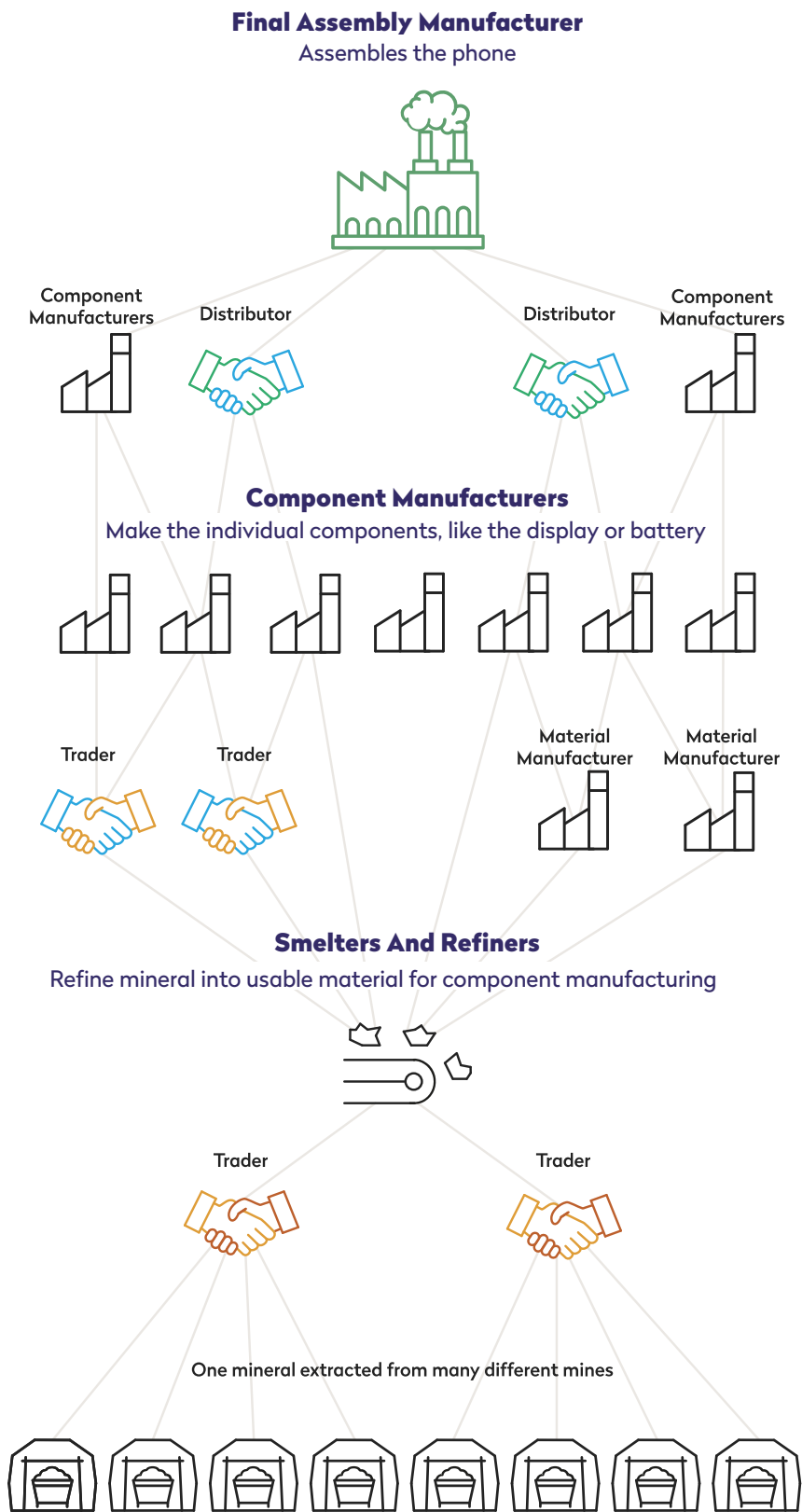
### **Assembly and component manufacturing**

The chips, circuits and pieces — like the battery or camera — which are assembled by indirect suppliers and used in the final assembly of the phone. We'll highlight efforts to enable living wages, strengthen worker voice, improve health & safety and reduce the impact on nature.

### **Material supply chains**

The metals, plastics, and raw materials that go into those components. We'll explain our focus on specific material supply chains (our "focus materials"), discuss the tools we use to conduct due diligence on those supply chains, and report on key findings, particularly in our tin, tantalum, tungsten, gold, cobalt and mica supply chains. In addition, we'll outline what we do to push the industry beyond mere compliance, toward creating positive impacts through a more sustainable sourcing and material footprint for a wider variety of materials.

# Simplified representation of a smartphone supply chain



This graph is a simplified reflection of the Fairphone supply chain. In electronics, a variety of set-ups is possible and this graph should not be taken as a one-size-fits all for other products and brands.

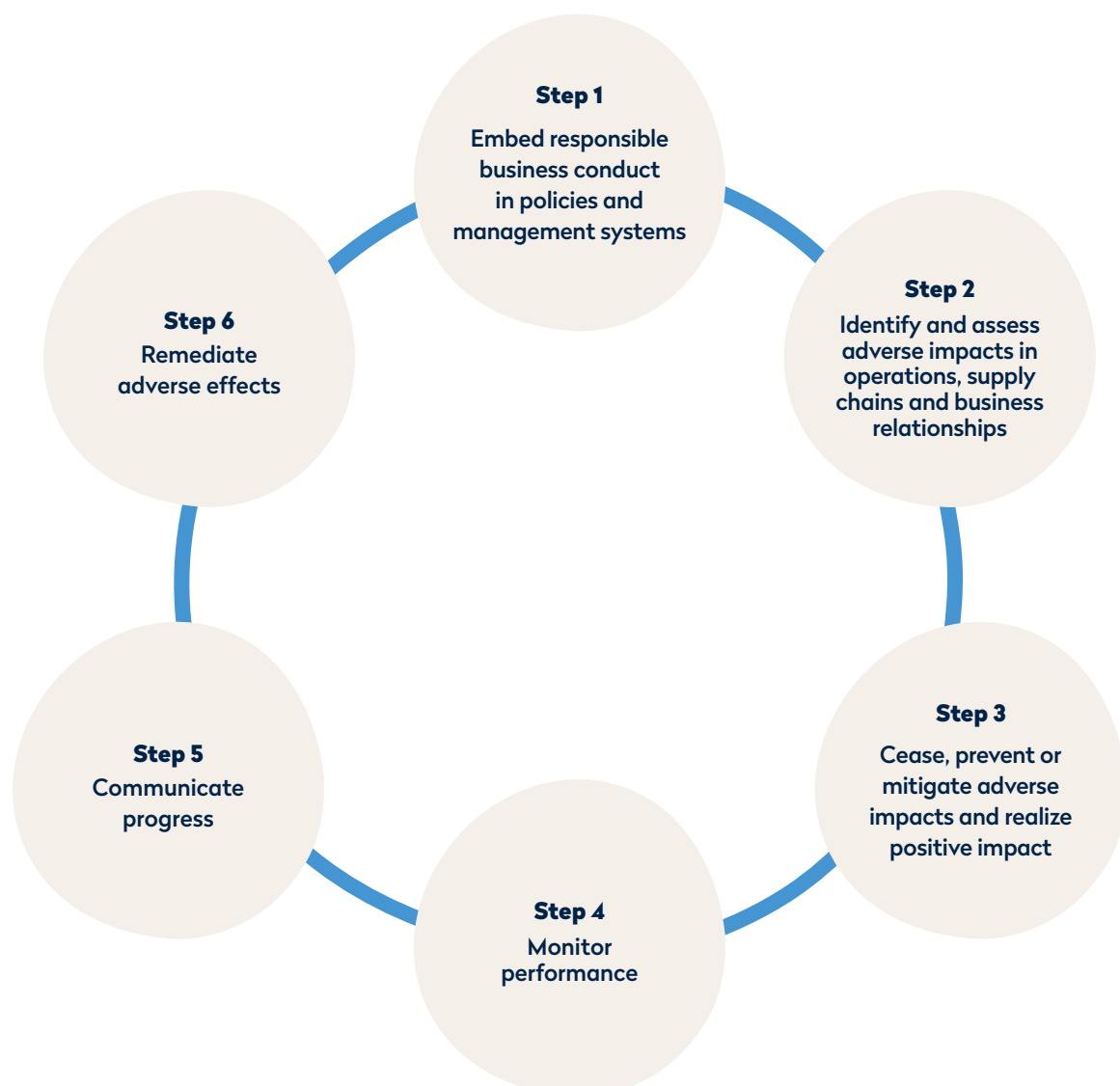
# 2 Due Diligence Approach



## Due Diligence Approach

Fairphone's due diligence approach is based on international guidelines and standards, including the United Nations Guiding Principles on Business and Human Rights (UNGP), the OECD's Guidelines on Multinational Enterprises (OECD Guidelines) and also takes guidance from the OECD's more detailed Due Diligence Guidance for Responsible Supply Chains of Minerals from Conflict-Affected and High-Risk Areas (OECD Guidance).

These documents outline a six-step process for a company's due diligence.



## **Step 1. Embed responsible business conduct in policies and management systems**

Our code of conduct, [the Fairphone Ways of Working Together](#), contains our policies and expectations for working with all of our partners and suppliers. It covers topics like human rights, health and safety, the environment, ethics and responsible sourcing. It is inspired by international standards, including ILO fundamental Conventions, ILO Fundamental Principles and Rights at Work, United Nations Guiding Principles, the OECD Guidelines, ETI Base Code and RBA Code of Conduct, as well as our own first-hand experience.

We distribute our Ways of Working Together to our suppliers at the outset of our engagement to raise awareness, generate impact, and secure improvement commitments from suppliers. We further require suppliers to adhere to our Ways of Working Together through contractual obligations, which also include due diligence requirements on sub-suppliers. We also build engagement with suppliers by embedding improvement plans such as impact projects and capacity-building programs into our contractual arrangements with strategic suppliers. We incentivize suppliers by offering a higher product price if they improve their social and environmental impact and we have set-up a co-investment fund to improve conditions in the supply chain. Crucially, we pay product prices that enable living wages at our supplier, effectively ring-fencing labor costs.

Fairphone's [Fair Sourcing Policy](#) establishes our approach to sourcing components and materials, ensuring that we tackle issues in the supply chain and drive opportunities for impact, rather than merely avoiding risks. It is both an internal guideline and an external tool to engage with industry partners. It aims to use market demand as a catalyst for positive change, creating continuous improvement trajectories that make a positive impact for people and the planet. The Fair Sourcing Policy establishes four main principles:

1. Use buying power as a catalyst for investment.
2. Address risks as opportunities.
3. Achieve continuous improvements and report on progress.
4. Work towards systemic change with region-wide impact.

In addition, we follow our internal policy and standard operating procedures on responsible sourcing and material due diligence. We engage with internal teams to manage, implement and track progress of their internal policies.

We are aware that our sourcing behavior may affect the working conditions at our suppliers. Responsible sourcing practices help reduce the risks of excessive working hours, low wages, forced labor or other poor labor practices at our direct suppliers, and encourage the supplier to improve their social and environmental performance. Fairphone sourcing practices include stable planning and forecasting, reasonable pre-financing and payment terms, product prices that enable a living wage for the workers of our suppliers (ring-fencing labor costs) and financial incentives for our suppliers to strengthen their social and environmental impact. These are included in contractual agreements with direct suppliers. We communicate, reinforce and generate expectations internally and externally with regard to our commitment to responsible resourcing of conflict minerals and our focus materials.

Our Chief Impact Officer is accountable for due diligence and the implementation of social and environmental impact programs, and sits on the overall management team at Fairphone. Fairphone has set seven company KPIs, of which five are impact related. The Board of Directors submits a monthly update to the Supervisory Board and is held responsible for achieving these seven KPIs. The KPIs are translated to concrete annual goals and actions for the internal teams, which in turn are part of employee performance reviews. The seven KPIs are described in detail in our annual [Impact Report](#). The experiences of supply chain workers or other stakeholders (such as civil society, unions or worker representatives and customers) help shape decision-making processes. They influence strategy setting and program design on all levels of the company; they are raised directly through staff from different teams in Board meetings and strategy discussions, or through their representative Board members.

Material due diligence responsibilities are divided between several teams at Fairphone, namely Impact Innovation, Product and Legal. The responsibilities are divided to ensure developments are monitored from all perspectives, e.g. product specifications, regulatory requirements and thought leadership. Moreover, the teams jointly work together to facilitate the data collection and analysis for reports such as this one.

All new employees of Fairphone receive an Impact training, outlining Fairphone's mission, vision, impact goals, policies and KPIs as part of their onboarding. Updates on impact projects and partnerships are provided to all employees in weekly company meetings and dedicated deep-dive sessions. Monthly and quarterly updates about the progress on the seven KPIs are shared with all employees.



## Step 2. Identify and assess adverse impacts in operations, supply chains and business relationships

Fairphone continuously conducts risk identification and assessment within its supply chain. We collect a variety of information from our suppliers, both at the supplier selection stage as well as continuously during production. This includes information from desktop research, supplier certifications, compliance audits, self-assessment questionnaires, worker-driven assessments by third parties, onsite visits by Fairphone staff and follow-up on social and environmental improvement programs by Fairphone staff or third parties. We engage with other stakeholders — such as supply chain workers or their representatives and civil society — to include their experiences and insights also. Fairphone actively seeks opportunities for improvement, aligning on improvement programs with direct and indirect (tier 2 or 3) suppliers, supporting them through investments and capacity building to help them realize a better social and environmental performance.

Fairphone requests a full material declaration from our final assembly manufacturer, to understand the material composition of our smartphone. We then engage with key suppliers and support them in investigating their supply chains involving our focus materials. This allows us to gain a view of the material mix (recycled or mined origins), the refiners in the supply chain and, possibly, the countries of origin of mined material. Due to the complexity of our supply chain, we do this one step at a time, focusing on key suppliers handling a large amount of our focus materials.

To identify risks specifically related to tin, tantalum, tungsten, gold (3TG) and cobalt, we ask suppliers to identify all of their smelters and refiners and to cascade the Conflict Mineral Reporting Template and a Emerging Minerals Reporting Template up their supply chain for completion. We also started to use the Pilot Reporting Template to explore the supply chains of other focus materials used in our battery. We evaluate the accuracy of the information generated by these reports, and assess the compliance of the reported refiners and smelters with the RMI's Responsible Minerals Assurance Process across a range of criteria. Fairphone also uses the RMI's Minerals Grievance Platform and our own Grievance channels as a predictive tool to gather information and key insights related to risk analysis and identification. When we identify information or practices that we consider concerning, or which are reported to us via the feedback mechanism at our website, we investigate further.

## Step 3. Cease, prevent or mitigate adverse impacts and realize positive impact

Fairphone's approach not only aims to cease, prevent and mitigate adverse impacts, we aim to improve the social and environmental maturity of our supply chain partners through engagement and support. This approach addresses risks identified through our supplier assessments and also aims to realize positive impacts such as increased worker satisfaction. The improvement plans aren't just based on compliance audits and similar assessments; they are also based on the needs of workers themselves. Fairphone invests in capacity building for direct and indirect suppliers, their workers and worker representatives. Further information on our approach and progress to support suppliers to realize positive impact is provided in chapter 3 Assembly and component manufacturing .

Our responsible sourcing policies further aim to both avoid affecting the working conditions at our supplier in a negative way while incentivizing the supplier to improve its social and environmental maturity. An important additional measure we take is enabling the payment of living wages and incomes in our supply chain. This increases the well-being of supply chain workers, their families, and communities, while helping to prevent child- and forced labor.

When it comes to material sourcing, Fairphone uses data reported by suppliers in their Conflict Materials and Cobalt Reports and updates of the list of compliant smelters and refiners maintained by RMAP in order to monitor and identify potential risks. Many suppliers report on a company level, which means they may include refiners that supply materials that are not actually used in Fairphone products. A member of our Impact Innovation team will assess the information and analyze any material declarations provided by our suppliers to confirm if high risk refiners are providing materials for Fairphone's products. If valid red flags are identified, we reach out for further clarification. Our first strategy is direct engagement to respond to identify risks.

If a cause for concern is determined, the red flag is reported to the management team and/or brought to the attention of the appropriate industry association or grievance platform. Where Fairphone identifies non-conformant smelters and refiners, we engage directly via our suppliers or via joint industry processes such as the RMI's smelter and refiner engagement, to establish their willingness to come into compliance. Where there is willingness, we engage with supply chain and industry partners to develop improvement trajectories and create impact. If there is no willingness or progress over time, Fairphone's policy aims to eliminate that supplier from our supply chain.

Fairphone recognizes that to cease, prevent or mitigate adverse impacts and realize positive impact, we are required to go beyond just checking the compliance status of smelters and refiners. This is why, when we identify significant risks or impact opportunities relating to any of our focus materials, we proactively engage and invest. We believe it's important to do this even if we haven't yet or can't trace the supply chain of that material in full; electronics supply chains are hugely complex.

It takes significant time and effort to track and trace materials, and sometimes we simply can't move forward if there is unwillingness to disclose further up the supply chain. So taking responsibility and investing in improvements in parallel to that discovery process can enable us to immediately make positive impacts. In chapter 4 materials supply chains, we provide a summary of the specific measures we take to create impact in our material chains, as this is different for each material.

For even more details, please refer to our [Impact Report](#).

#### **Step 4. Monitor performance**

Fairphone keeps track of the progress made on improvement plans agreed with suppliers. This includes regular check-ins throughout the year with each supplier. Their progress, as well as the progress on company KPIs, is reported on a monthly basis to the Management Board and Supervisory Board.

The Conflict Mineral and Cobalt Reports from our component suppliers include lists of the smelters they work with. As a small player, we don't always have the resources to conduct additional audits on our own. We therefore rely on industry-wide programs like the Responsible Minerals Assurance Process (RMAP) or other recognized third-party audits. Fairphone aims for a 100% conformance rate for the smelters and refiners identified in Fairphone's conflict minerals supply chains.

In addition to this, we monitor and track the sourcing and integration of our 14 focus materials, regularly reporting on the percentage of responsibly mined or recycled content in our phones and products and showing the degree to which we've been able to link fairer sources to our supply chains.

When we invest in improvement projects in mining areas, we insist on establishing monitoring and evaluation frameworks that include voices from the mine workers and their communities, in order to understand if and how they themselves perceive improvements in their lives.

#### **Step 5. Communicate progress**

Fairphone reports on our supply chain due diligence and related improvement projects through our website, blog, annual Impact Report and this Supply Chain Engagement Report.

You can find further policies, studies and publications, as well as our previous due diligence and impact reports [here](#). Our annual Impact Report and the seven KPIs are also audited by a third party on a yearly basis.

#### **Step 6. Remediate adverse effects**

The international standards highlight that companies should address and remediate the impacts they caused or contributed to by engaging or cooperating in remediation processes when appropriate. This also includes the establishment of proper grievance channels for potentially affected stakeholders such as workers or communities. Beyond that, remediation processes should take the needs and rights of the affected stakeholder into account and prevent that the affected stakeholder ends up in worsened situations.

General supply chain grievances can be sent to Fairphone, and we provide a specific email address where anyone can lodge a complaint or grievance relating to the effectiveness of Fairphone's responsible sourcing practices. Grievances or complaints relating to specific Annex II risks of the OECD Guidance can be submitted via the RMI Minerals Grievance Platform, which is an online cross-industry grievance platform designed to screen and address grievances linked to smelters and refiners in the minerals supply chains.

In addition Fairphone directly engages with potentially affected stakeholders — such as workers — and ensures that they can voice complaints and grievances. We have established worker voice and worker representation programs at key (sub-)suppliers, through which factory workers can regularly and safely voice concerns or requests for improvements. Fairphone supports and invests in these improvements in collaboration with the relevant supplier. Fairphone also supports engagement with and inclusion of worker and community voices within the projects further in the material supply chains, such as the Multi-Stakeholder Roundtables established in the lithium mining regions in Chile under the Responsible Lithium Partnership (for more information, please see our [Impact Report](#)). We aim at further expanding and strengthening this approach in our supply chains in the future.

# 3 Assembly and component manufacturing

## Our approach to identifying and working with suppliers

At Fairphone, we believe that each supplier and workplace requires a tailored approach to create a long-lasting, positive impact. However, we can't do this with all suppliers at once. We're taking a step-by-step approach to mapping and improving our supply chain which aims to maximize our impact and bring us closer to our goal of 100% supply chain visibility and accountability.

### Mapping our suppliers

Fairphone designs and sells the Fairphone smartphones and headphones. As is common in the industry, we contract out the assembly to a specialist company. A product like a smartphone has many components, and a single component will often have multiple sub-parts from multiple suppliers. Our key supplier is the final assembly manufacturer, who assembles the smartphone. This is considered tier one of the supply chain. The component manufacturers are tier two. The sub-component suppliers that they work with are tier three, their suppliers are tier four, etc. Supply chains may be as long as ten tiers (or more). Over the years, we've been working hard to identify the different actors involved in making our products.

### Collaboration and setting expectations

Supply chains are long and complex, and we believe that getting suppliers involved in our mission is the only way to increase understanding of the issues and to influence real change. Our code of conduct, [the Fairphone Ways of Working Together](#), contains our policies and expectations for working with all of our partners and suppliers, covering topics like human rights, health and safety, the environment, ethics and responsible sourcing.

We go beyond that code by conducting research, requesting more detailed information via supplier self-assessment questionnaires, conducting on-site visits and scheduling independent compliance audits, worker satisfaction surveys and other appraisals to ensure our direct suppliers are complying with our ethical and sustainability requirements. We also reach out beyond the final assembly manufacturer, conducting assessments and creating risk and opportunity ratings of critical component suppliers.

Where red flags are identified, our first step is not necessarily to terminate the relationship: we work with the supplier to find mitigation strategies. And we don't stop at risk mitigation. We aim to always

identify opportunities for creating positive change. We partner with our suppliers on critical topics, including living wages, worker voice and representation, health & safety and nature.

Since 2019, Fairphone has supported factory workers of our suppliers with a living wage bonus - the first electronics company to do so. We're also the first to pay living wage bonuses for headphone manufacturing and to the workers of sub-suppliers of components.

Uniquely within our industry, we guide our suppliers and sub-suppliers in setting up worker representation systems with democratic elections, and sponsor expert capacity building training to strengthen worker voice. We invest alongside our suppliers in improvements identified by workers - such as offering training courses or renovating dormitories - to increase worker satisfaction.

To ensure healthy and safe workplaces, we set a high requirement for social compliance for the final assembly of our smartphones, and implement Clean Electronics Production Network's PCDC tool for safe chemical use at final assembly and strategic component suppliers.

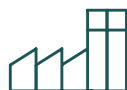
We pay close attention to the environmental performance of our suppliers - including waste, water, energy and chemicals - encourage them to set ambitious energy and carbon reduction targets and to source renewable energy.

Fairphone regularly engages with different stakeholders — including NGOs — and participates in networks such as the Responsible Business Alliance, Towards Zero Exposure commitment program, UN Global Compact, IDH's Roadmap on Living Wages and more. We share our experience, and learn from and capture different perspectives, which feed into our supply chain due diligence and impact programs.

## Results of our assembly and component manufacturing due diligence and impact programs

What have we learned about our supply chains so far? Here's a snapshot of the most important findings of the Fairphone 4, Fairphone 5, Fairbuds and Fairbuds XL supply chains.

These tables present all the first-tier and second-tier suppliers, as well as the third tier suppliers that we engaged with. A detailed supplier list can be found in Annex 1. Note that these are not all the suppliers in our supply chain. We are still mapping the totality step by step.



**2**  
Final Assembly Suppliers



**116**  
Tier 2 Component Suppliers



**17**  
Tier 3 Component and Material Suppliers

Component  
Manufacturers

**We identified the production facilities of 126 of the 135 suppliers. They are located in:**

Geographic Area	Count	%
China	109	86%
Japan	7	6%
Korea	4	3%
Singapore	1	1%
Taiwan	3	2%
Malaysia	1	1%
Thailand	1	1%
Total	126	100%

Tier 1 Final Assembly	Count	%
<b>SA8000, BSCI</b>	2	100%
<b>ISO 14001</b>	2	100%
<b>ISO 45001</b>	1	50%
<b>ISO 50001</b>	1	50%
<b>Total Tier 1 Suppliers</b>	<b>2</b>	<b>100%</b>

The final assembly manufacturers of our smartphones and headphones have been audited by independent parties, against recognized international standards on decent working conditions and environmental impact. The final assembly of the smartphones has valid SA8000 certification, one of the highest standards for safe and decent working conditions,

along with ISO14001 certification for environmental management, ISO 45001 for health and safety and ISO 50001 for energy & GHG management. The final assembly of the headphones has been audited against the BSCI standard (rated “C - Acceptable”) for decent working conditions and obtained ISO14001 certification for environmental management.

Tier 2 Component Suppliers	Count	%
<b>SA8000, RBA-VAP, BSCI, etc.</b>	8	7%
<b>ISO 14001</b>	54	47%
<b>ISO 45001</b>	36	31%
<b>ISO 50001</b>	5	4%
<b>Total Component Suppliers</b>	<b>116</b>	<b>100%</b>

As part of Fairphone’s due diligence process, we also assess the social and environmental maturity of our tier two component suppliers. This assessment enabled us to have a deeper look in our supply chain. While half of the tier two component manufacturers have obtained one or more ISO certification(s) for environmental management or health & safety, it is less common that component manufacturers have been audited against

a compliance standard such as SA8000 or RBA VAP by an independent third party (or they were not able to provide the relevant audit reports to Fairphone). As part of our engagement, we help component suppliers to get ready for compliance auditing or ISO certification and also initiate compliance audits and worker satisfaction surveys conducted by independent third parties.

# Improvements assembly & component suppliers 2021 - 2023

Fairphone engages with suppliers to develop impact programs with a focus on living wages, worker voice and representation, health & safety and the impact on nature. We are particularly proud to support workers from two final assembly suppliers and three component suppliers with a living wage bonus, to

help bridge the gap towards a living wage. The visual below highlights the progress made with our tier 1 and strategic tier 2 component suppliers to improve working conditions and reduce their environmental impact. You can read more about these initiatives in Fairphone's latest [Impact Report](#) and on our [website](#).



# 4 Material supply chains



## The raw materials that make up our phone

Based on our [Fair Materials Sourcing Roadmap](#) (published in 2021), we prioritize fair sourcing for key focus materials. We began our fair sourcing journey by first investigating the materials in smartphones and headphones. This included reviewing the full material declarations from our final assembly manufacturers, and resulted in a list of over 50 materials. We then investigated the environmental and social impacts of these materials, their extraction and refinement, depletion rates, material criticality, and a range of other factors, including the potential for more sustainable and fair production.

The result was a list of 14 materials that are the focus of our improvement efforts:

### Our 14 focus materials

To build our products we use over 50 different materials. We selected 14 focus materials based on where we can make the biggest positive impact on planet & people.

 Aluminium	 Lithium	 Silver
 Cobalt	 Magnesium	 Tin
 Copper	 Nickel	 Tungsten
 Gold	 Plastics	 Zinc
 Indium	 Rare Earth Elements*	

\*Including Neodymium, Praesodymium, Dysprosium

Some of these materials are already subject to legislation and regulation, but Fairphone wants to see greater and more inclusive due diligence exerted by the industry and more investment into improving the social and environmental impacts of these materials.

We want to see more than industry compliance that limits itself to audits and material tracking. We want to see continuous industry engagement with suppliers with a focus on collaboration and progressive improvement. We also want to put more focus on the voices of affected stakeholders in this process, including workers in factories and mines, and communities affected by such operations.

### **Our step-by-step journey to create positive impact**

In line with our Fair Sourcing principles, supply chain due diligence is not only about managing risks; it's addressing those risks as opportunities to create impact. For each focus material, we embark on a step-by-step journey, echoing our overall due diligence approach:

1. Research: Understanding the social and environmental issues in the supply chain and opportunities for positive impact
2. Supply chain mapping: Engaging with suppliers of key components where the focus materials are used, to identify who and where they source from
3. Supplier and partner engagement: Establish connections with key actors, initiatives, associations and partners on the ground in the mining areas
4. Program design: Engaging with key partners to develop a continuous improvement plan or a multi-stakeholder initiative
5. Program implementation: Fairphone (co-)invests time and financial resources in implementation of the improvement plan together with partners on the ground, often in multi-stakeholder initiatives
6. Continuous improvement: Monitoring progress over time and remaining engaged and invest over the long term.

We are proud to engage and invest in the places where the social and environmental issues are most widespread, because we believe that this is where we can have the biggest positive impact. You'll see several examples where we work with suppliers to improve the fairness and sustainability of their operations. When mining — particularly ASM — is the primary source of income for an entire community, the responsible option is not necessarily to abandon a supplier at the first sign of risk or negative impacts, but to work with them to improve, in line with the OECD Guidelines and the UN Guiding Principles of Business and Human Rights.

In 2023, we have advanced in making a positive change in materials supply chains by sourcing more responsibly mined materials, hugely increasing our use of recycled materials and actively engaging with partners who can help us achieve these goals. More details on this can be found in our [Impact Report 2023](#).

### **Due diligence on material supply chains**

Due diligence is a continuous process which is both proactive and reactive to industry risks and regulatory developments. Fairphone is founded on the drive to create positive impact; we therefore engage in active due diligence not only to ensure compliance with legislative requirement. We want to understand, prevent, mitigate and remediate adverse impacts associated with the upstream part of our supply chain, and to identify where Fairphone can show thought-leadership for positive impacts.

## Fairphone 5: fair materials in key components



## Fairphone 4: Fair materials in key components



## Scope, framework, and tools

When it comes to due diligence on the materials that go into our phones, five metals in particular within our supply chain<sup>1</sup> are the focus of industry-wide attention. They are:

### **Tin, tantalum, tungsten, and gold (3TG)**

3TG minerals are often linked to problematic issues stemming from conflict-affected high risk areas — these minerals can be used to finance military groups, perpetuate human right abuses, and increase financial crimes. This is why they are covered in several regulations, such as the EU Conflict Minerals Regulation. Unlike the other three, tantalum is not one of our 14 focus materials, but we continue to conduct due diligence on it.

### **Cobalt**

Already in 2021 Fairphone added cobalt as a main focus for due diligence alongside 3TG. Although cobalt is not included in most formal definitions of conflict minerals, it can be linked to similar human rights risks as 3TG minerals such as in the Democratic Republic of Congo, home to more than 50% of the world's cobalt reserves.

In addition, the materials contained in the batteries of our devices are also a key focus in the industry. This is why in 2023 we also put a particular due diligence focus on lithium, graphite, copper, nickel and aluminum used in our batteries, in addition to the focus on cobalt. Of course we also conduct due diligence on the supply chains of our other focus materials in key components, though not (yet) collecting the list of smelters and refiners.

The supply chain of these materials consists of many tiers — beginning in the mines and flowing through various traders, exporters, smelters, refiners and multiple manufacturing tiers. They are scattered across dozens if not hundreds of various components of Fairphone devices — resulting in extensive lists of

smelters and refiners in our products' supply chains, with an even more extensive network of material sources and mines.

Fairphone's approach to due diligence on these materials combines the tools and practices that the Responsible Minerals Initiative (RMI) provides to its members, in combination with our own Fair Sourcing Policy and Material Due Diligence Policy, as well as our active engagement on the ground to help address, improve identified risks and create positive impact (see our [Impact Report](#) for more).

Fairphone also supports and participates in many existing industry efforts to improve due diligence, because this is not a task we can achieve alone. We are an active member of the Responsible Minerals Initiative and engaged on the following:

### **Minerals working groups**

Fairphone is a part of some of the RMI's Working Groups, where we help define standards and best practice, and support the engagement with smelters and refiners as the key “pinch point” in mineral supply chains

### **Refiner and smelter standards and audits by RMI**

Fairphone builds on the RMI's efforts in engaging with smelters and refiners and in aligning standards for other supply chain tiers.

### **Conflict Minerals Reporting Template (CMRT), Emerging Minerals Reporting Template (EMRT) and Pilot Mineral Reporting Template (PRT)**

We use these tools to investigate our supply chains of 3TG, cobalt, and mica, as well as the lithium, graphite, copper, nickel and aluminium used in our batteries. These tools are aligned and harmonized across the industry, and thus help suppliers fulfill their obligations towards other customers as well.

The Responsible Minerals Initiative (RMI) is a global organization which supports and promotes responsible mineral production and sourcing globally, including from conflict-affected and high risk areas. RMI provides companies with tools and resources that improve regulatory compliance, align with international standards, and support industry and stakeholder expectations. In addition, the RMI implements the Responsible Mining Assurance Programme, through which mineral refiners and smelters are independently audited against the RMI's standards. The RMI's mission is to ensure that mineral supply chains contribute positively to social and economic development globally.



<sup>1</sup> Key Product Target Groups: Smartphones and Headphones. This report encompasses smelters and refiners that provide materials for the Fairphone 4, Fairphone 5 and Fairbuds XL. Previous reports for the Fairphone 2, 3, and 3+ and the smelters and refiners used in their manufacture can be found at our website.

## Results of our materials due diligence 2023

Below we provide a snapshot of our most important findings on the smelters and refiners (SOR) in our tin, tantalum, tungsten, gold, cobalt and mica supply chains for the Fairphone 4, Fairphone 5 and Fairbuds XL. We have identified a total of **296** smelters and refiners of these minerals.\* Beyond this,

Fairphone has piloted the mapping of other battery minerals such as lithium, graphite, copper, nickel and aluminium. As the Fairbuds production started in 2024, the mineral due diligence is not included yet in this report. It will be included in future publications.

### Tin, tantalum, tungsten, and gold (3TG)

Our investigation found that **80%** of our suppliers reported on a company or user defined level, which means that they report smelters and refiners in their supply chain, but the material from these does not necessarily end up in Fairphone's products. The remainder **20%** reported on a product level.

CMRT Collection 3TG	Count	%
Suppliers that provided CMRT report	119	97%
Report on company & user defined level	95	80%
Report on product (categories) level	24	20%

### Smelters and refiners

We have identified 242 eligible tin, tantalum, tungsten, and gold (3TG) smelters and refiners.\* They are located in:

Geographic area 3TG	Count
Asia excluding China	98
China	55
Europe	37
North America	26
South America	21
Rest of the world	5
<b>Total</b>	<b>242</b>

\*)The number excludes smelter and refiners that received the status "Not Applicable" for RMAP, which may be because the facility is not a smelter or refiner, is not yet operational, operations have been suspended, or it's not clear if the facility is a smelter or refiner. In 2023, seven facilities had the "Not Applicable" status and were not included in the analysis.

**Third party audit status of smelters and refiners of the four minerals designated as “conflict minerals”<sup>2</sup>**

	Total reported	Audit Passed	Audit not passed	Engaged in auditing process	Unable to Proceed	Not Applicable
<b>Gold</b>	108	91	11	4		2
<b>Tantalum</b>	35	33			1	1
<b>Tin</b>	68	64	3			1
<b>Tungsten</b>	38	33	2			3
<b>Grand Total</b>	<b>249</b>	<b>221</b>	<b>16</b>	<b>4</b>	<b>1</b>	<b>7</b>

Compared to 2022, the smelters and refiners in our supply chain have changed. The total number of reported smelters has increased from 231 to 249. The number of smelters and refiners that have passed the audit is stable. We noted a bigger number of smelters that did not pass on the audit, specially for gold (5 in 2022 against 11 in 2023). At the same time the number of smelters and refiners currently engaged in the auditing process has increased from 1 to 4, all of them in gold.

Fairphone has the goal of reaching 100% conformant smelters and refiners and is therefore making it a priority to reach out to the SOR that have not passed the audit through engagement with the RMI and with the suppliers who reported these non-conformant SOR.

Last year, we also requested our tier 1 supplier to reach out to the smelters and refiners who were not yet engaged in the auditing process in 2022. With the increase of non conformant smelters in 2023, we are prioritizing outreach these smelters and refiners to understand the issues and how they can be improved. We are also reaching out to the smelters and refiners who are not yet engaged in the audit process, through our suppliers and engaging with RMI, to encourage these SOR to come on board.

The full list of smelters and refiners is available in Annex 2.

<sup>2</sup> The Responsible Minerals Assurance Programme (RMAP) by RMI audits smelters and refiners on their due diligence practices with regards to minerals from high-risk and conflict-affected areas.

### Country of origin enquiry

The SOR in our supply chain report sourcing the 4 minerals designated as “conflict minerals” from the following geographic areas:

2023	Gold	Tungsten	Tin	Tantalum
<b>Smelters known to directly source from the DRC</b>	0	3	5	10
<b>Smelters known to directly source from the DRC's adjoining countries (Not the DRC itself) (CC)</b>	0	4	3	11
<b>Smelters known to directly source from CAHRAS (HR)</b>	5	1	7	15
<b>Smelters known to directly source from recycled/scrap sources (R/S)</b>	28	5	21	17
<b>Smelters disclosed direct sources to auditors only (Aggregated)</b>	62	24	0	0
<b>Smelters known to indirectly source from the DRC</b>	0	4	4	14
<b>Smelters known to indirectly source from the DRC's adjoining countries (Not the DRC itself) (CC)</b>	0	6	4	14
<b>Smelters known to indirectly source from CAHRAS (HR)</b>	1	5	5	16
<b>Smelters known to indirectly source recycled/scrap sources (R/S)</b>	7	10	12	13
<b>Smelters disclosed indirect sources to auditors only (Aggregated)</b>	12	16	0	1

Fairphone actively encourages our suppliers and their SOR to source from the Democratic Republic of Congo and adjoining countries as well as other conflict-affected and high risk areas. This is because we strongly believe in remaining engaged in such areas, because mining often provides an important source of livelihood for the local community.

Our aim is to contribute to improving practices in mining and mineral trading in these areas, and supporting continuous improvement to ensure the materials we source are conflict-free. This is in line with Fairphone's prioritization of positive impact over pure risk management.

## Cobalt & Mica

Beyond the regulated minerals designated as “conflict minerals”, Fairphone also investigates and reports on our cobalt and mica supply chains, using the RMI’s Extended Minerals Reporting Template (EMRT).

EMRT Collection Cobalt & Mica	Count	%
EMRT suppliers reported"	119	97%
Report on company & user defined level	95	80%
Report on product (categories) level	24	20%

### Smelters and refiners location (cobalt and mica)

We have identified 54 eligible smelters and refiners. They come from:

Geographic area Cobalt & Mica	Count
Asia excluding China	9
China	28
Europe	4
North America	2
South America	6
Rest of the world	5
<b>Total</b>	<b>54</b>

### Third party audit status of cobalt and mica smelters and refiners:

Compared to 2022, the smelters and refiners in our supply chain have changed. This year we mapped four mica smelters, and the majority is already engaged in the auditing process. Meanwhile, the number of cobalt smelters decreased from 67 to 50. A bigger number of cobalt smelters passed the audit (35 in 2022 against 41 in 2023), and fewer smelters were not engaged or didn't pass in the auditing process yet (17 in 2022 against 2 in 2023).

In 2023, we had requested our tier 1 supplier to reach out to the smelters and refiners who were not yet engaged in the auditing process in 2022. At the end of the year, nearly all of the cobalt cobalt smelters and refiners were engaged in the auditing process or had already successfully passed the audit. We are prioritizing outreach to the smelters and refiners who are not yet engaged through our suppliers and engaging with RMI, to encourage these SOR to come on board. The full list of smelters and refiners is available in Annex 2.

	Total reported	Audit passed	Audit not passed	In communication with RMI about audit	Engaged in auditing process	Not engaged in auditing process	Unable to proceed
<b>Mica</b>	4				3	1	
<b>Cobalt</b>	50	41		2	4	2	1
<b>Total</b>	54	41		2	7	3	1

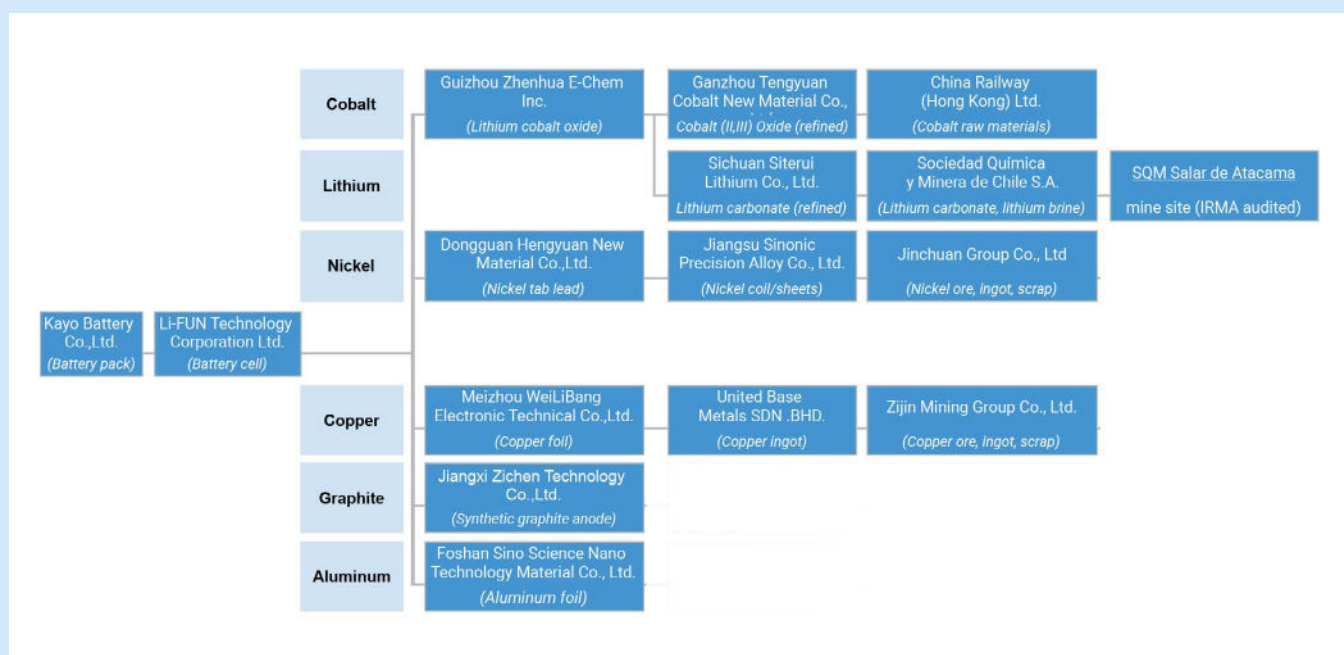


## Materials in our batteries

In 2023 we piloted the investigation of smelters and refiners specifically in our batteries' supply chains. In addition to cobalt, which is also used in our batteries, we investigated the supply chains of lithium, graphite, copper, nickel and aluminum used in the batteries of Fairphone 5 in depth. For this, we used the RMI's Pilot Mineral Reporting Template (PRT), but also engaged directly with our battery suppliers to get further in-depth information about their material sub-suppliers. For the Fairbuds XL and Fairbuds battery supply chains the mapping is still on-going and will be one of our focus areas in 2024.

This investigation is a step forward in the supply chain due diligence and enables Fairphone to have a deeper look into our battery supply chain and disclose information beyond tin, tantalum, tungsten and gold ("conflict minerals" or "3TG"), cobalt, and mica. It is in line with our focus material strategy and a step towards implementing the EU Battery Regulation.

## Spotlight: Fairphone 5 battery material supply chain



Above we provide a snapshot of our most important findings on the smelters and refiners in our battery supply chain. We have identified 5 smelters and refiners for lithium, nickel, copper, graphite and aluminum, most of them are located in Asia. We identified the RMI conformance status of two, they are presented

in Annex 2. We did not manage to verify the RMI conformance status for the other three refiners and smelters in time for the publication of this report. We aim to conduct further analysis and engage via the RMI for further outreach to these smelters and refiners.

## Materials supply chain engagement

### Using the results of due diligence to create positive impacts

What sets Fairphone apart as a thought leader is our bottom-up fair sourcing approach. Not everything that's meeting the minimum legal or compliance requirements can be considered fair, and we look beyond the regulations around tin, tantalum, tungsten, gold and cobalt at opportunities for fair and sustainable sourcing of all our 14 focus minerals and materials that make up the Fairphone 4, Fairphone 5 and the Fairbuds XL. That is what we set out to do.

Indeed, our approach to due diligence is rooted in engagement and collaboration. We recognize that due diligence has to be more than paperwork, traceability and audits, which is unfortunately still often the industry's approach to this topic. In essence, our bottom-up approach aims to involve affected stakeholders (such as workers, mining communities, or communities affected by mining) along our supply chain as much as possible, and to enable their voices to be heard — after all, they understand best where the biggest needs for improvement lie and where the most positive impact can be generated.

We also look for ways to improve things on the ground directly, especially where we know that our industry has a responsibility due to its material use. We use our purchasing power to increase the demand for responsibly produced and traded minerals, and we also invest resources in supporting actors in and around mines to improve conditions. We create and participate in multi-stakeholder initiatives that work towards systemic and long-lasting changes on the ground. Our approach to due diligence is not limited to basic supply chain checks and ensuring we are in compliance, but pro-actively engaging and investing in improvements jointly with affected actors, even in the most difficult and sensitive places. We believe only this level of due diligence will lead to the positive changes that are so urgently needed in our sector.

### Embedded in a long-term vision

We base our actions regarding our 14 focus materials on our long term vision: a world in which we are truly circular - where materials can be used, reused and recycled to their full extent and we would not need to mine new materials to meet our material demand. Moving to a circular economy requires multiple interventions. The need for longer lasting products, improved repairability, re-use, collection, and recyclability of products are some of the key areas that need to be addressed. At Fairphone, we focus on many of these aspects, designing and supporting long-lasting products and incentivizing improved collection of end-of-life post- consumer waste through our take-back and recycling programs.

Yet the mining sector will remain a key supplier for decades to come. The growth in demand is projected to be exponential for certain minerals, especially those needed for our transition to a greener economy. But challenges also exist from the supply side of recycled materials: only a small proportion of generated e-waste is currently collected and recycled. And even when products are ready for recycling, not all materials can be fully recovered due to the complex combinations of materials in technological applications.

This is why we aim at improving both the mining and the recycling of materials.

## Fair mining

The mining sector does not come without problems. Both large scale mining (LSM) as well as artisanal and small-scale mining (ASM) are linked with social and environmental challenges. LSM operations usually span very large areas of land and can cause significant damage to the environment including air, water and soil pollution. Impacts on, and conflicts with, surrounding communities are a reality, due to pollution and the use of limited resources such as land, forests and water.

The ASM sector often operates informally, characterized by low to no mechanization, dangerous working conditions, environmental pollution and child labor. Although both LSM and ASM come with significant social and environmental challenges, they are also equipped with the ability to drive social and economic development and improve livelihoods. The mining sector is of key importance to developing economies and provides a livelihood for millions of people around the globe. The ASM sector alone employs over 44 million people worldwide and indirectly supports an estimated 150- 200 million people. The LSM sector, although having low labor intensity, can have a large multiplier effect on surrounding sectors and job creation.

One direct mining company employee may correspond to three to five employees elsewhere in the economy.

Our approach is therefore as follows: we first identify good practices, certifications and initiatives in mining. We then encourage and support specific suppliers to source from these to develop a fully transparent supply chain, component by component. We work with mines, smelters and suppliers to integrate fair sources into the supply chain. By driving demand for fair materials, we seek to catalyze investments, creating positive feedback loops around fair and sustainable practices. Where fair mining sources don't exist, we'll work to develop them. We recognize and acknowledge that some mines cannot change overnight, but can commit to improve and grow from meeting basic expectations to the highest levels of best practice: continuous improvement. That sometimes requires supporting them in that journey. We partner with international and local organizations that can provide capacity building, investments in improved equipment, and better market access.

## Recycling

E-waste has been defined as the worlds' fastest growing waste stream. While recycling is increasing steadily around the globe, end-of-life recycling rates of e-waste are very low. This is due to relatively low efficiencies in the collection and processing of most metal- bearing discarded products, inherent limitations in recycling processes, and primary material is often relatively abundant and low-cost, thereby keeping down the price of scrap. The sourcing strategies of companies could be an important factor, as increasing the demand for post-consumer recycled materials can incentivize collection and recycling.

Fairphone therefore focuses on maximizing our use of post-consumer recycled materials, increasing options for responsible end-of-life disposal or recycling, and encouraging fair recycling chains. We are aware that recycled sources, especially when they involve small-scale e-waste collection, dismantling and recycling in developing countries, come with high social and environmental risks. Here we see an important need for the industry to step up and create positive impact for people in the small-scale recycling chains .

Just as we do for mined sources, we research and investigate recycled sources, best practices, and actors to partner with. We encourage and support key suppliers in sourcing from recycled sources with transparent supply chains, and we invest in improving these sources where possible. Our goal is to invest in and build scalable sourcing models of fair post-consumer recycled materials, which the industry can replicate.

Beyond this, we have a take-back programme for gathering old phones from new customers, and we additionally recover phones discarded and dumped in Africa for recycling.

We are proud that the Fairphone 4, Fairphone 5, Fairbuds and Fairbuds XL are all e-waste neutral, meaning that for every phone, headphone and module we sell, another phone or the same amount of e-waste is either reused or recycled through Fairphone's efforts. We are also improving Fairphone's recyclability through design.

### Fair materials target and achievements to date

Our Fair material target was an average percentage of 70% (by weight) of the 14 focus materials that we aim to source more sustainably (or whose responsible production we aim to support) by 2023. Working towards this KPI ensures that we assess how effective our efforts are in addressing social and environmental issues and creating positive impact through our material supply chains.

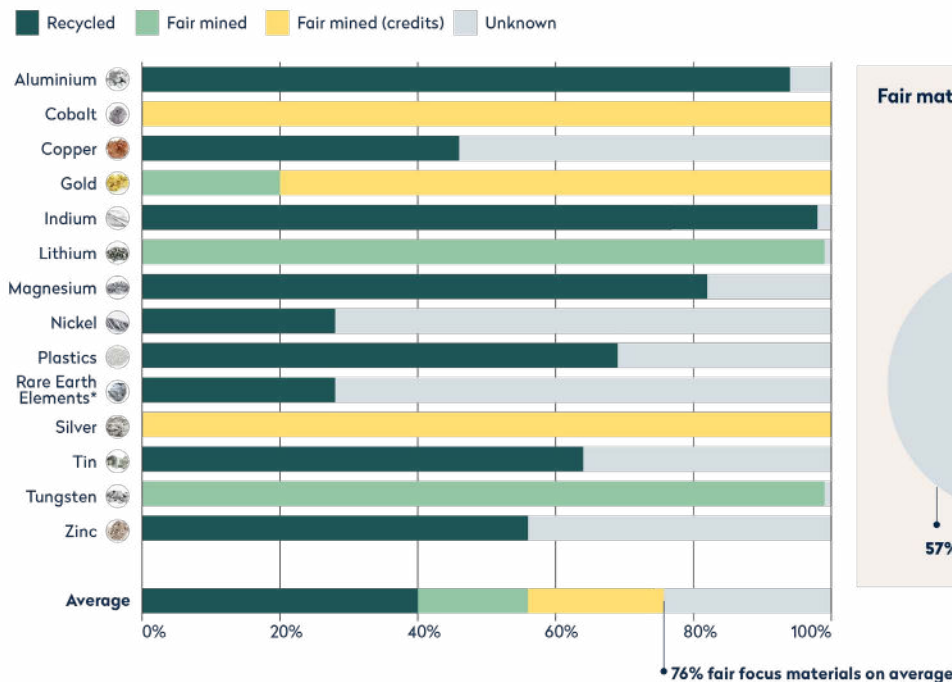
In 2023 we achieved 76% fair focus materials for the Fairphone 5 and increased the fair materials % for Fairphone 4 to 54%. This meant that we investigated the supply chains of these 14 focus materials, and where possible, we rerouted our supply chain to link more responsible sources with our manufacturers or

with suppliers deeper in our supply chains. Where a traceable link with our supply chain was not possible, we have supported improvements in responsible production on the ground in line with our material consumption — for example, by piloting Cobalt Credits (for more details, see our [Impact Report](#)).

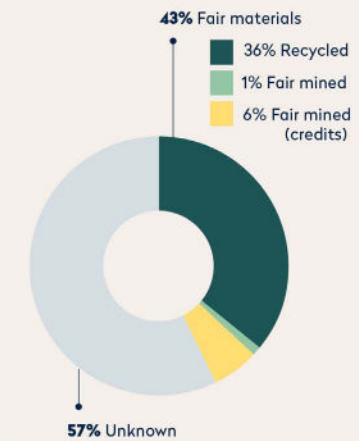
Building responsible supply chains for all 14 focus materials and investing in improved practices where it is most needed requires sustained effort.

In our 2023 [Impact Report](#), we provide detailed information on the steps we take to identify and assess, cease, prevent or mitigate adverse impacts and realize positive impact in each of our 14 focus materials supply chains. The diagram below provides a summary of actions taken per material.

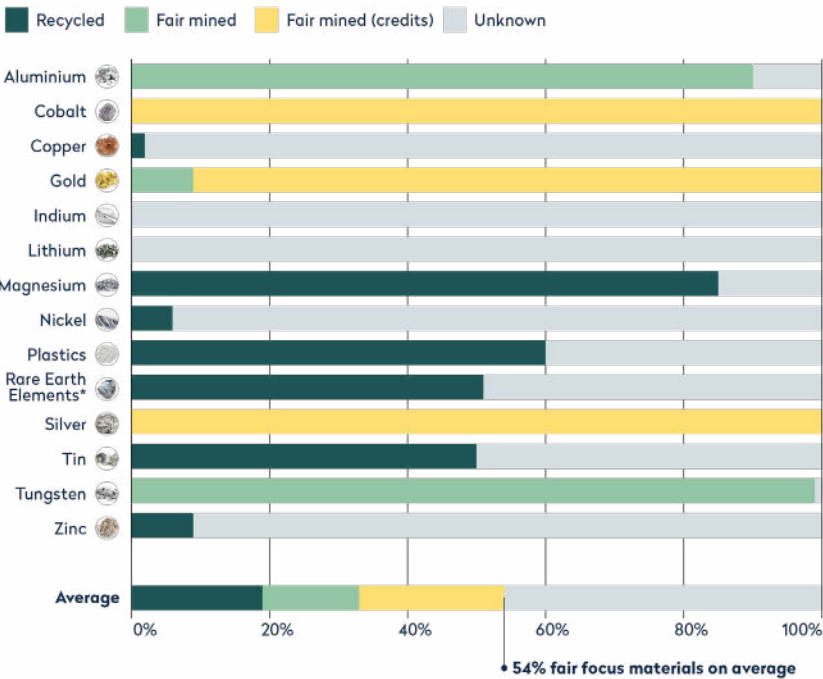
Fairphone 5: status of 14 focus materials



Fair materials in Fairphone 5

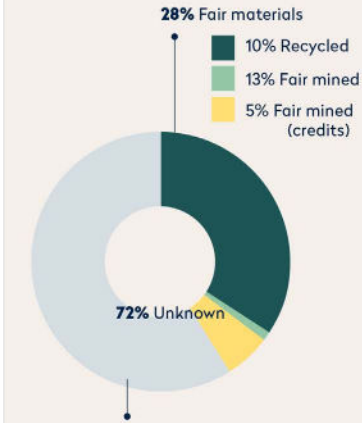


Fairphone 4: status of 14 focus materials



\*Including Neodymium, Praesodymium, Dysprosium

Fair materials in Fairphone 4



# 5 Partnerships and collaboration

## Partnerships and collaboration

Fairphone's end goal is sustainable and measurable impact. Beyond the above mentioned mineral-specific projects and partnerships that Fairphone engages in, we work together with others to improve industry-wide practices, both in the context of our top down due diligence as well as bottom-up engagement approaches.

### We are part of the:

#### Responsible Business Alliance (RBA)

RBA is an industry coalition dedicated to corporate social responsibility in global supply chains, with a large membership base in the electronics industry. Fairphone participates in the Responsible Minerals Initiative (see below) and the Responsible Labor Initiative working groups.

#### Fair Cobalt Alliance (FCA)

Fairphone is a member of the Fair Cobalt Alliance, which it co-founded together with The Impact Facility (TIF) and with funding support from the Netherlands enterprise Agency (RVO). The FCA is a multi-stakeholder platform with the goal to strengthen and professionalise the artisanal cobalt mining sector in the DR Congo and to contribute to economic development for local communities."

#### European Partnership for Responsible Minerals (EPRM)

The EPRM is a multi-stakeholder partnership with the objective to increase the proportion of responsibly produced minerals from conflict-affected and high-risk areas (CAHRAs) and to support socially responsible extraction of minerals that contributes to local development. As one of the first members, Fairphone is participating in the working groups of the EPRM, sharing our experiences of due diligence and learning from others and participating in an EPRM-supported gold project (see also our [Impact Report](#))

#### Responsible Minerals Initiative (RMI)

RMI's vision is that mineral supply chains contribute positively to social economic development globally. It is one of the most utilized and respected resources for companies from a range of industries addressing responsible mineral sourcing issues in their supply chains. Beyond using the tools and guidance provided by RMI (see section Due Diligence), Fairphone also actively engages in RMI Working Groups.

#### The Initiative for Responsible Mining Assurance (IRMA)

IRMA's vision is of a world where the mining industry respects human rights and aspirations of affected communities, provides safe, healthy and supportive workplaces, minimizes harm to the environment, and leaves positive legacies. IRMA is committed to transparency and continuous improvement in the mining sector—two aspects that are key in our Fair Sourcing Policy as well as our mission at Fairphone. With the increase of global demand for more responsible mining, IRMA offers a verification system for all mined materials, where the score is based on the social and environmental performance of mining sites, and takes into consideration the views of affected people, such as workers and nearby communities.

As a member, Fairphone is part of the buyers group. Our membership enables us to reach out to our suppliers in our supply chain and encourage them to be audited through IRMA. For example, through active outreach and engagement we have worked with our battery suppliers to integrate lithium from IRMA-assessed mines into our supply chain.

In addition to the examples highlighted above, we actively participate in the following platforms:

- Aluminum Stewardship Initiative (ASI)
- B Corporation
- Circular Electronics Partnership (CEP)
- European Raw Materials Alliance (ERMA)
- Clean Electronics Production Network (CEPN)
- FairTec (founder)
- IDH's Roadmap on Living Wages
- Living Wage and Income Lab
- MVO Nederland
- Responsible Labor Initiative (RLI)
- Responsible Lithium Partnership (RLP)
- Right to Repair Campaign
- Social Enterprise NL
- UN Global Compact

# 6 Summary of results and improvements





## Summary of results and improvements

### Summary of key results

- Following the increase of our product portfolio, the scope of this year's supply chain engagement report is expanded. It offers transparency on and describes our engagement with the suppliers of the Fairphone 4, Fairphone 5, Fairbuds XL and Fairbuds.
- We have increased our due diligence efforts to also extend to sub-suppliers of our headphones, and have started to offer further transparency on the social and environmental standards and certifications of our tier 2 suppliers.
- This report demonstrates the mineral mapping of Fairphone 4, Fairphone 5 and Fairbuds XL. Our investigation shows that the smelters and refiners of tin, tantalum, tungsten, gold and cobalt in our supply chain changed from 2022. This is why we have a higher number of gold smelters and refiners who did not pass the audit. On a positive note, a large number of cobalt smelters and refiners are now either engaged in auditing or have successfully passed the audit, verifying they comply to the RMI standard. We are making it a priority to engage with our suppliers who were reported either as non-conformant or not engaging in order to request (re-)auditing or, in case a smelter or refiner is not responsive, explore the option to end the business relationship. We also continue our engagement and outreach through the RMI.
- In 2023 we did more in-depth engagement of tier 2 and even tier 3 and 4 suppliers to better understand their material sourcing and advance our fair materials goals. This was especially the case for our Fairphone 5 battery suppliers using materials such as cobalt, lithium, nickel, aluminium and copper. This ensures transparency in our battery supply chains and supports our preparation for the EU Battery Directive and other upcoming supply chain due diligence regulation.
- We have further strengthened our due diligence tools to better capture the environmental impact of manufacturing.
- We advanced significantly in our goal to integrate fair materials from fair mined and/or recycled sources into our products or supply chains and made sure that our material-use footprint creates positive impacts. More details

on this can be found in our 2023 [Impact Report](#).

- We have supported direct and indirect (tier 2) suppliers to achieve improved working conditions and a lower environmental impact by sponsoring worker surveys and assessments, as well as capacity building training for workers, worker representatives and management.
- We have expanded our living wage program with three indirect component suppliers of our smartphones and the final assembly of our headphones, both industry firsts.

### Our improvement plan

In the spirit of continuous improvement, we want to strengthen our supply chain engagement and due diligence practices even further in 2024. We aim to work on the following key points:

- Follow up on the smelters and refiners who are not yet conformant with the RMAP standard, through engaging our suppliers and with the RMI.
- Continuing to further map the social and environmental maturity and impact of suppliers and sub-suppliers of our products.
- Continuing to enable inclusion of workers' and other affected stakeholders' voices in the due diligence process and expand this further in our value chains.
- Engaging with industry associations and audit schemes to better align the different standards and audit programs and ensuring that they capture a wide set of human rights and environmental aspects in line with the UN Guiding Principles and the OECD Guidelines, moving beyond the narrow focus on "conflict minerals" and the risks defined in Annex II of the OECD Guidance.
- Streamlining our approach by assessing (upcoming) regulatory requirements on due diligence and reporting (such as the EU Battery Regulation and the EU Corporate Sustainability Reporting Directive) to adapt and update our systems and mechanisms. This is being done with the goal of streamlining these numerous requirements to ensure our approach supports us in creating positive impacts for people and planet.

# 7 Conclusion

## Join our Journey

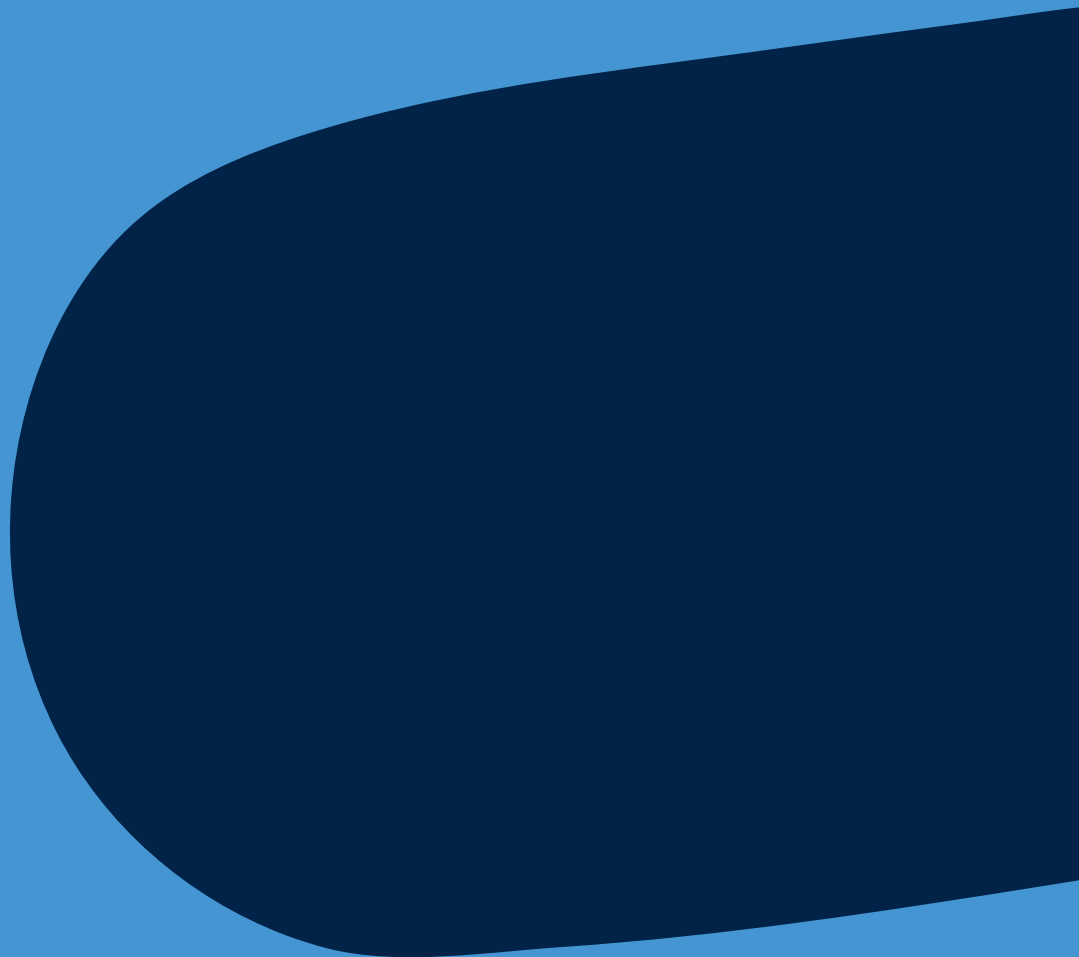
We continue to prove, every day, the idea at the core of Fairphone: we can create consumer electronics that are fairer to human beings and kinder to the earth. And while that takes effort, those efforts are rewarded by customers and suppliers who appreciate that their choices have consequences, and given an ethical choice, will make an ethical choice.

We at Fairphone, our suppliers, and the entire electronics industry are still far from the goals of a 100% fair and sustainable product that fits seamlessly into a circular economic model in which nothing is wasted. We move closer to that goal every year.

Fairphone is in a unique position to co-develop new approaches to tackle systemic issues in the mining, recycling, and manufacturing sectors.

Our principles and practices, if more widely adopted, would mean substantial improvements in the lives of miners, factory workers, and their communities. We can't do this alone. We welcome partnerships to help drive change. We welcome feedback from our suppliers and customers. We welcome the sharing of our learnings. We welcome new opportunities to accelerate, wherever we can, the goal of moving the entire industry beyond conflict-free materials to truly fair sourcing, and from unethical to fair, sustainable and circular business practices.

# 8 Annexes



## Annex 1: List of assembly suppliers and sub-suppliers

Consumer electronics supply chains include several complex, often opaque tiers of suppliers, ranging from first-tier assembly manufacturers (direct suppliers) to second and third-tier component manufacturers. Many electronics manufacturers only have insight into their direct suppliers and perhaps some second-tier component manufacturers.

At Fairphone, we are working to gain an in-depth understanding of the complicated layers of our supply chain. In addition to our first-tier assembly manufacturer, we have mapped all second-tier suppliers, and are progressively including third and fourth-tier suppliers in our research. By uncovering all of the different players and manufacturing locations in our smartphone supply chain, we can start engaging with suppliers, establishing relationships and initiating programs for improvement.

### Understanding our List of Suppliers

The list below includes all of the first, second and third-tier sub-suppliers that we know of to date, and it is accurate to the best of our knowledge at the time of publication. We will periodically update the information in this document as we learn more. Here is a bit more information about how the list is arranged:

### Locations

Whenever possible, we have listed the (approximate) manufacturing location. If this information was not available, we have provided the location of the company headquarters.

### Categories

Suppliers are grouped by the type of components they produce. Some suppliers may be mentioned more than once because they produce different kinds of components, sometimes with different manufacturing locations.

### Tiers

Supplier tiers are calculated from the point of the final assembly. So the final assembly partner is tier 1, (component) suppliers to the final assembly partner are tier 2, their (component) suppliers make up tier 3, etc.

### Suppliers included

This list includes our first tier assembly manufacturer and all component manufacturers that we have mapped to date. To provide a clear overview, it does not include refiners, smelters, traders or mines which are listed in Annex 2.

### Fairphone product

This list includes the Fairphone products that the suppliers provide components for.

Please note: This list reflects the suppliers currently providing components or materials for Fairphone products. Inclusion on the list does not imply that these manufacturers are “fairer” than their competitors, or that Fairphone has a direct relationship with these companies and is influencing their business practices.

Tier	Manufacturer Name	Number of sites	Address: Manufacturer or Headquarters	Manufacturer country	Website	Fairphone Product	Product Supplied
Tier 1	Huizhou TCL Mobile Communication Co., Ltd.	1	Manufacturer: No.86, Hechang 7th West Road, Zhongkai Hi-tech Development District, Huizhou, Guangdong	China	<a href="http://www.t2mobile.com">www.t2mobile.com</a>	Fairphone 4, Fairphone 5	Assembly
Tier 1	HONSENN TECHNOLOGY CO. LTD.	1	Manufacturer: 2nd Horizontal Road 70 Zhuan Yao industrial zone WenTang village Dongcheng District, Dongguan City, Guangdong Province, China	China	<a href="http://www.honsennaudio.com/">http://www.honsennaudio.com/</a>	Fairbuds XL, Fairbuds	Assembly
Tier 2	Ams	1	Manufacturer: Hana AYT/Bangkok	Thailand	<a href="https://ams.com/zh/ams-start">https://ams.com/zh/ams-start</a>	Fairphone 4	Semiconductors - Integrated Circuits, Discretes, LEDs
Tier 2	Asahi Kasei Microdevices Corporation	1	Manufacturer: 2-1-3 ASAHI-MACHI, NOBEOKA-CITY, MIYAZAKI	Japan	<a href="https://www.akm.com/cn/zh-cn/">https://www.akm.com/cn/zh-cn/</a>	Fairphone 4	Semiconductors - Integrated Circuits, Discretes, LEDs
Tier 2	SENSORTEK	1	Headquarters: 36-1, South 2nd Road, Tanzi Dist., Taichung, Taiwan R.O.C.	Taiwan	<a href="https://www.sensortek.com.tw/">https://www.sensortek.com.tw/</a>	Fairphone 5	Semiconductors - Integrated Circuits, Discretes, LEDs
Tier 2	Pixelworks Semiconductor Technology (Shanghai)CO., LTD.	1	Manufacturer: Unit 1701-1706 No.1 Sandhill Plaza 2290 Zuchongzhi Road, Pudong New District, Shanghai, 201210, China	China	<a href="http://www.pixelworks.com">www.pixelworks.com</a>	Fairphone 4, Fairphone 5	Semiconductors - Integrated Circuits, Discretes, LEDs
Tier 2	NXP	1	Manufacturer: No. 10, Jing 5th Rd., Nanzi Dist., R. O.C., Kaohsiung City 81170, Taiwan	Taiwan	<a href="https://www.nxp.com.cn/">https://www.nxp.com.cn/</a>	Fairphone 4, Fairphone 5	Semiconductors - Integrated Circuits, Discretes, LEDs
Tier 2	Wuxi Murata Electronics Co., LTD	1	Manufacturer: Wuxi export Processing Zone B line Chuang 1 road No. 6	China	<a href="https://corporate.murata.com/">https://corporate.murata.com/</a>	Fairphone 4, Fairphone 5	Semiconductors - Integrated Circuits, Discretes, LEDs
Tier 2	ABLIC	1	Headquarters: 1-9-3 Higashinbashi, Minato Ward, Tokyo, Japan	Japan	<a href="http://www.ablic.com">www.ablic.com</a>	Fairphone 5	Semiconductors - Integrated Circuits, Discretes, LEDs
Tier 2	Shang Hai Prisemi Electronics Co.,Ltd	1	Manufacture: 10-11F, building D, Jixian IC Innovation Center, No.565 Shengxia Road, Zhangjiang Town, Shanghai	China	<a href="http://www.prisemi.com/">http://www.prisemi.com/</a>	Fairphone 4, Fairphone 5	Semiconductors - Integrated Circuits, Discretes, LEDs
Tier 2	Waltech Advanced Engineering (SUZHOU),Inc.	1	Manufacturer: 666 Lushan Road, New District, Suzhou, Jiangsu Province, P.R.	China	No Official Website	Fairphone 4, Fairphone 5	Semiconductors - Integrated Circuits, Discretes, LEDs
Tier 2	Shanghai awinic technology co.,ltd	1	Headquarters: 15F., Block B, No.908 Xiuwen Road, Minhang District, Shanghai	China	<a href="https://www.awinic.com/">https://www.awinic.com/</a>	Fairphone 4, Fairphone 5	Semiconductors - Integrated Circuits, Discretes, LEDs
Tier 2	Tianjin WISOL Electronics Co.,Ltd	1	Manufacturer: D1-1/3, D2-2 International Industrial City XEDA Tianjin China	China	<a href="http://www.wisol.co.kr">www.wisol.co.kr</a>	Fairphone 4, Fairphone 5	Semiconductors - Integrated Circuits, Discretes, LEDs
Tier 2	Qualcomm CDMA Technologies Asia-Pacific Pte. Ltd	1	Headquarters: 5775 Morehouse Drive San Diego, CA 92121-1714 United States	America	<a href="https://www.qualcomm.com/">https://www.qualcomm.com/</a>	Fairphone 4, Fairphone 5	Semiconductors - Integrated Circuits, Discretes, LEDs
Tier 2	AMOTECH	1	Manufacturer: 380, Namdongseo-ro, Namdong-gu, Incheon, Republic of Korea	Korea	<a href="https://global.amotech.co.kr/wpl/">https://global.amotech.co.kr/wpl/</a>	Fairphone 5	Semiconductors - Integrated Circuits, Discretes
Tier 2	KYOCERA Corporation	1	Manufacturer: 1166-6, Hebimizo-cho, Higashiomi-city, Shiga, 527-8555	Japan	<a href="https://www.kyocera.com.cn/">https://www.kyocera.com.cn/</a>	Fairphone 4, Fairphone 5	Semiconductors - Integrated Circuits, Discretes
Tier 2	Walsin Technology Corp	1	Manufacturer: No.7, South 4th Road, K.E.P.Z Kaohsiung, 80681, Taiwan, R.O.C	Taiwan	<a href="http://www.passivecomponent.com">http://www.passivecomponent.com</a>	Fairphone 4, Fairphone 5	Semiconductors - Integrated Circuits, Discretes
Tier 2	SG Micro Corp	2	Manufacturer: 288 Chongchuan Road, Chongchuan District, Nantong City, Jiangsu Province No.8, Kexin Road, Gaoxin West District, Chengdu City, Sichuan Province	China	<a href="https://cn.sg-micro.com/">https://cn.sg-micro.com/</a>	Fairphone 4, Fairphone 5	Semiconductors - Integrated Circuits, Discretes
Tier 2	SAMSUNG Electro_Mechanics	3	Manufacturer: 1 Samsung Electronics-ro, Hwaseong-si, Gyeonggi-do 114 Samseong-ro, Godeok-myeon, Pyeongtaek-si, Gyeonggi-do 158, Baebang-ro, Baebang-eup, Asan-si, Chungcheongnam-do	Korean	<a href="https://www.samsung.com">https://www.samsung.com</a>	Fairphone 4, Fairphone 5	Semiconductors - Integrated Circuits, Discretes & Passives
Tier 2	Dongguan Daxing light Glue Products Factory	1	Manufacturer: Shijie Town, Dongguan City, Shuinan Jiaren Industrial Zone, second floor	China	No Official Website	Fairbuds XL, Fairbuds	Semiconductors - Integrated Circuits, Discretes, LEDs
Tier 2	JIANGSU AMICCOPTO-ELECTRONICS TECHNOLOGY CO., LTD.	1	Manufacturer: NO.98 WUNAN MIDDLE ROAD, HUTANG TOWN, WUJIN DIST., CHANGZHOU CITY, JIANGSU	China	<a href="https://www.amicc.com/">https://www.amicc.com/</a>	Fairphone 5	Semiconductors - Integrated Circuits, Discretes, LEDs
Tier 2	OBO Pro.2 Inc.	1	Manufacturer: No.15 Dianchang Road, Bixi street, Changshu City, Jiangsu Province	China	<a href="http://www.obopro2.com">www.obopro2.com</a>	Fairphone 4, Fairphone 5	Semiconductors - Integrated Circuits, Discretes, LEDs
Tier 2	JCET Group Co.,Ltd.	1	Manufacturer: 275 Binjiang Zhong Lu, Jiangyin City, Jiangsu Province, China	China	<a href="http://www.vanchip.com/">http://www.vanchip.com/</a>	Fairphone 4, Fairphone 5	Semiconductors - Integrated Circuits, Discretes, LEDs
Tier 2	Dongguan Jing Zhi Zhuo Precision Hardware Products Co., Ltd.	1	Manufacturer: No. 25 Liu Family Development Center, Liheng Road, Shi Pai Town, Dongguan City	China	No Official Website	Fairbuds XL	Semiconductors - Integrated Circuits, Discretes, LEDs
Tier 2	Shenzhen Xinshan Crystal Co., Ltd.	1	Manufacturer: Shenzhen Baoan Fuyong Peace Community Yonghe Road double Gold Hui industrial city	China	<a href="http://www.xinshanjt.com">http://www.xinshanjt.com</a>	Fairbuds	Semiconductors - Integrated Circuits, Discretes, LEDs
Tier 2	Shenzhen Qixin Microelectronics Co., Ltd.	1	Manufacturer: No. 8288, Longgang Avenue, Heao community, Yuanshan Street, Longgang District, Shenzhen City	China	No Official Website	Fairbuds	Semiconductors - Integrated Circuits, Discretes, LEDs

Tier	Manufacturer Name	Number of sites	Address: Manufacturer or Headquarters	Manufacturer country	Website	Fairphone Product	Product Supplied
Tier 2	Dongguan Audio Pin Electronic Technology Co., LTD	1	Manufacturer: No.29, Lane 3, Bazhisong Road, Qishi Town, Dongguan City, Guangdong Province	China	No Official Website	Fairbuds XL	Semiconductors - Integrated Circuits, Discretes, LEDs
Tier 2	Lianzhonglian (Dongguan) Technology Co., Ltd.	1	Manufacturer: 2 ND and 6 th industrial road, Sima, Dongguan	China	<a href="http://welink-tec.cn">http://welink-tec.cn</a>	Fairbuds	Semiconductors - Integrated Circuits, Discretes, LEDs
Tier 2	Dongguan Chuang Tong Electronics Limited	1	Manufacturer: Room 326, Building 1, No. 66, Datangtou East Street, Zhushan, Dongcheng Street, Dongguan City, Guangdong Province	China	No Official Website	Fairbuds XL, Fairbuds	Semiconductors - Integrated Circuits, Discretes, LEDs (Mic)
Tier 2	ETA Semiconductor Limited	1	Manufacturer: 999 Shiji Avenue, Chengbei Industrial Park, Chuzhou City, Anhui Province	China	<a href="http://www.eta-semi.com/">http://www.eta-semi.com/</a>	Fairphone 5	Semiconductors - Integrated Circuits, Discretes, LEDs & Passives
Tier 2	Dongguan Jing Zhi Zhuo Precision Hardware Products Co., Ltd.	1	Manufacturer: No. 25 Liu Family Development Center, Liheng Road, Shi Pai Town, Dongguan City	China	No Official Website	Fairbuds	Semiconductors - Integrated Circuits, Discretes, LEDs & Passives
Tier 2	TAIPAQ Electronics (Si-hong)Co.,Ltd.	1	Manufacturer: The South HangZhou Road and The East JianShe Road, Economic Development Zone, Sihong County, SuqianCity, Jiangsu Province, P,R, China	China	<a href="http://www.taitech.com.hk">http://www.taitech.com.hk</a>	Fairphone 5	Passives
Tier 2	ATX	1	Manufacturer: NO.188, Su Hong Xi Road, SIP, Suzhou, Jiangsu, China 215021.	China	<a href="https://www.tfme.com/">https://www.tfme.com/</a>	Fairphone 4, Fairphone 5	Passives
Tier 2	TFME	1	Manufacturer: NO.288, Chongchuan Road, Nantong , Jiangsu , China.	China	<a href="http://www.atxsemicon.com/ASEN_website/content/Briefs_c.html">http://www.atxsemicon.com/ASEN_website/content/Briefs_c.html</a>	Fairphone 4, Fairphone 5	Passives
Tier 2	Carsem	1	Manufacturer: JALAN LAPANGAN TERBANG 31350 IPOH, PERAK DARUL RIDZUAN, MALAYSIA (M-site)	Malaysia	<a href="https://www.carsem.com.cn/szcccweb/">https://www.carsem.com.cn/szcccweb/</a>	Fairphone 4, Fairphone 5	Passives
Tier 2	MODA-INNOCHIPS CO., LTD.	1	Manufacturer: 42-7, Dongsan-ro 27beon-gil, Danwon-gu, Ansan-si, Gyeonggi-do, Korea	Korea	<a href="https://www.freepatentsonline.com/10716196.html">https://www.freepatentsonline.com/10716196.html</a>	Fairphone 4, Fairphone 5	Passives
Tier 2	WAKAYAMA TAIYO YUDEN CO., LTD.	1	Manufacturer: 4026-22, Inanbara, Inami-cho, Hidaka-gun, Wakayama 649-1532, Japan	Japan	<a href="http://www.yuden.co.jp/">www.yuden.co.jp/</a>	Fairphone 4, Fairphone 5	Passives
Tier 2	Guangdong Yuhong Electronic Technology Co., Ltd.	1	Manufacturer: Huqiu District, Suzhou City Zhuyuan Road and Huangpu Street intersection near northeast	China	<a href="http://www.yageo.com">http://www.yageo.com</a>	Fairbuds XL, Fairbuds	Passives
Tier 2	Shoulder Electronics Corporation Limited	1	Manufacturer: No.115,Gaoyun road,Binhu Economic and Technology Development Area, Wuxi, Jiangsu, China	China	<a href="https://www.shoulder.cn/en/index.html">https://www.shoulder.cn/en/index.html</a>	Fairphone 5	Passives
Tier 2	RF360	1	Manufacturer: 166 Kallang Way, Singapore	Singapore	<a href="http://rfe.qualcomm.com">rfe.qualcomm.com</a>	Fairphone 4, Fairphone 5	Passives
Tier 2	Shenzhen Microgate Technology Co.LTD	1	Manufacturer: Microgate Technology Building, No. 16 , Science&Technology Road , Pingshan District , Shenzhen China	China	<a href="http://www.szmicrogate.com">www.szmicrogate.com</a>	Fairphone 4, Fairphone 5	Passives
Tier 2	EYANG TECHNOLOGY DEVELOPMENT CO.,LTD.	1	Manufacturer: 101C, EYANG Building, No.13 Gaoxin North 4th Rd, Songpingshan Community, Xili Subdistrict, Nanshan District, Shenzhen, Guangdong Province, China	China	<a href="http://www.szeyang.com">www.szeyang.com</a>	Fairphone 4, Fairphone 5	Passives
Tier 2	Guangdong Fenghua Advanced Technology Holding Co.,Ltd	1	Manufacturer: Fenghua Electronic Industrial City, 18th Fenghua road, Zhaoqing City, Guangdong Province,P.R.C	China	<a href="http://www.china-fenghua.com">www.china-fenghua.com</a>	Fairphone 4, Fairphone 5	Passives
Tier 2	GUANGDONG VIYONG ELECTRONIC TECHNOLOGY CO., LTD.	1	Manufacturer: Viyong Hi-Tech Park, No.1 Chuangye 2nd Road, Shuangdong Sub-district, Luoding, Guangdong, P. R. China	China	<a href="http://www.viyong.com">http://www.viyong.com</a>	Fairphone 4, Fairphone 5	Passives
Tier 2	Shenzhen Sunlord Electronics Co., Ltd.	1	Manufacturer: Sunlord Industrial Park, Guanlan Da Fu Yuan, GuanGuang Road, Longhua, Shenzhen	China	<a href="http://www.sunlordinc.com/category.aspx?ModelID=398">http://www.sunlordinc.com/category.aspx?ModelID=398</a>	Fairphone 4, Fairphone 5	Passives
Tier 2	Tottori Production Div.	1	Manufacturer: 7-3-21Wakabadai minami, Tottori 689-1112 Japan	Japan	<a href="https://www.kds.info/">https://www.kds.info/</a>	Fairphone 4, Fairphone 5	Electromechanical, MEMS
Tier 2	Zhejiang Baolong M&E Co.,Ltd. (Baolong)	1	Manufacturer: No.388 Ningkan East Road, Chengdong street,Yueqing City,Whenzhou City, Zhejiang Province,China	China	<a href="http://www.baolong.com/">http://www.baolong.com/</a>	Fairphone 4, Fairphone 5	Electromechanical, MEMS
Tier 2	Hefei Bayu Electronic Technology Co., LTD	1	Manufacturer: 906 Xinghui Road, Kunshan City, Suzhou City, Jiangsu Province	China	No Official Website	Fairphone 4, Fairphone 5	Electromechanical, MEMS
Tier 2	ST	1	Manufacturer: 6F, Tower B, TCL Center, Southern No. 1 Road, South District, Hi-Tech Industrial Park, Nanshan, Shenzhen 518057, P. R. China	China	<a href="http://www.statschippac.com">http://www.statschippac.com</a>	Fairphone 4, Fairphone 5	Electromechanical, MEMS
Tier 3	AAC Technology (Nanning) Co., Ltd.	1	Manufacturer: Shenguan collagen think tank 3# factory, 9# factory, 13# factory, No.13, Guokai Avenue East, Jiangnan District, Nanning, China	China	No Official Website	Fairphone 4, Fairphone 5	Electromechanical, MEMS
Tier 3	Tianjia	1	Manufacturer: 171 Yu Yin Road, YaoBei village, Hong Qiao, Yue Qing, ZheJiang, China	China	No Official Website	Fairphone 4, Fairphone 5	Electromechanical, MEMS
Tier 2	NXP Semiconductors (Tianjin) Ltd	1	Manufacturer: No.15 Xinghua Road, Xiqing Economic Development Area, Tianjin City 300385	China	<a href="https://www.nxp.com/">https://www.nxp.com/</a>	Fairphone 5	Connectors, Clips, Spring Contacts, Cables
Tier 2	HONGRIDA TECHNOLOGY COMPANY LIMITED	1	Manufacturer: West of QingSong Road YuShan Town KunShan City JiangSu PR.China	China	<a href="http://www.hongrida.com">www.hongrida.com</a>	Fairphone 5	Connectors, Clips, Spring Contacts, Cables
Tier 2	Kunshan KEIRAKU Precision Industry Co.,Ltd	1	Manufacturer: No.1999,Hanpu Rode,Yushan Town, Kunshan City,Suzhou City,Jiangsu Province,215300	China	<a href="http://keiraku.com.cn/">http://keiraku.com.cn/</a>	Fairphone 4, Fairphone 5	Connectors, Clips, Spring Contacts, Cables



Tier	Manufacturer Name	Number of sites	Address: Manufacturer or Headquarters	Manufacturer country	Website	Fairphone Product	Product Supplied
Tier 2	Hirose	3	Manufacturer: 2-21-2 Agamae,Miyakoshi,Iwateken Japan 3-87,Ookawara,Koriyama,Fukushima Japan 36-14 Toudai,Ichinosekishi,Iwateken Japan	Japan	<a href="https://www.hirose.com">https://www.hirose.com</a>	Fairphone 4, Fairphone 5	Connectors, Clips, Spring Contacts, Cables
Tier 2	Yuliang Hongzheng Electron science Co.,LTD.	1	Manufacturer: Shabu No.2 Industrial Zone,Dalang Town,Dongguan Guangdong,China	China	<a href="http://www.dgyuliang.net/">http://www.dgyuliang.net/</a>	Fairphone 4, Fairphone 5	Connectors, Clips, Spring Contacts, Cables
Tier 2	Electric Connector Technology Co., Ltd.	1	Manufacturer: 1-3/F,8-A Block, Jinxiu Industrial Park , Xitian Community , Gongming Subdistrict , Guangming New District , Shenzhen ,Guangdong Province ,P.R. China	China	<a href="http://www.ectsz.com">http://www.ectsz.com</a>	Fairphone 4, Fairphone 5	Connectors, Clips, Spring Contacts, Cables
Tier 2	Dongguan Huixin Electronic Technology Co., LTD	1	Manufacturer: No. 3 Floor, Building B, Building B, No. 6 Longshan Garden, Dapi Takahashi Road, Daping Town, Dongguan City	China	No Official Website	Fairbuds XL, Fairbuds	Connectors, Clips, Spring Contacts, Cables
Tier 2	Dongguan Haoxin Wire and Cable Technology Co., LTD	1	Manufacturer: 2 Baobo Road, Dongkeng Town, Dongguan City, Guangdong Province	China	No Official Website	Fairbuds XL	Connectors, Clips, Spring Contacts, Cables
Tier 2	Xinmingtai electronics (Huizhou) limited	1	Manufacturer: Huicheng District, Huizhou City, Hedi Road No. 1, Fangzhi City Times garden	China	<a href="http://www.jiamingtai.net">http://www.jiamingtai.net</a>	Fairbuds XL	Connectors, Clips, Spring Contacts, Cables
Tier 2	Shenzhen Xinlinda Circuit Technology Co. , Ltd	1	Manufacturer: No. 179, Xinhua Avenue, Buyong Community, Shajing Street, Baoan District, Shenzhen	China	No Official Website	Fairbuds XL	Connectors, Clips, Spring Contacts, Cables
Tier 2	Shenzhen Keyu Shengda Technology Co. , Ltd.	1	Manufacturer: Shenzhen Qianhai Shenzhen-hong Kong Cooperation Zone Nanshan Street Guiwan Zone 2 units Qianhai excellent financial center	China	<a href="http://www.keysida.com">http://www.keysida.com</a>	Fairbuds	Connectors, Clips, Spring Contacts, Cables
Tier 2	Dongguan Xinqi Precision Electronics Co. , Ltd.	1	Manufacturer: No. 88, Daxing Road, Yangwu, Dalingshan, China	China	<a href="http://www.xqjmdz.com">http://www.xqjmdz.com</a>	Fairbuds	Connectors, Clips, Spring Contacts, Cables
Tier 2	Shenzhen Taike Hanze Precision Electronics Co. , Ltd.	1	Manufacturer: No.51 Zhulongtian Road, Shiyan Street, Baoan District, Shenzhen	China	No Official Website	Fairbuds	Connectors, Clips, Spring Contacts, Cables
Tier 2	Dongguan Jiacun Trading Co. , Ltd.	1	Manufacturer: Tenglong Business Center 805, Nancheng District, Dongguan City	China	No Official Website	Fairbuds	Connectors, Clips, Spring Contacts, Cables
Tier 2	BOE Vision Technology	1	Manufacturer: No.1188, HEZUO Road, Chengdu, SICHUAN	China	<a href="https://www.boe.com/">https://www.boe.com/</a>	Fairphone 5	Display, Touch Screen
Tier 2	Dongguan Chitwing Technologies Co., Ltd.	1	Manufacturer: NO. 166 Chang'anXinmin Road, Chang'an Town, Dongguan City, Guangdong Province, P.R. China	China	<a href="http://www.chitwing.com">http://www.chitwing.com</a>	Fairphone 5	Display, Touch Screen
Tier 2	TLCM	1	Manufacturer: No. 93-7, Xintang Road, Rentian Community, Fuhai Street, Baoan District, Shenzhen, Guangdong, China	China	<a href="http://www.djnlcd.com">www.djnlcd.com</a>	Fairphone 4	Display, Touch Screen
Tier 3	Corning	1	Headquarters: One Riverfront Plaza Corning, New York 14831, United States	United States	<a href="https://www.corning.com/">https://www.corning.com/</a>	Fairphone 4, Fairphone 5	Display, Touch Screen (Components)
Tier 3	AUO	1	Manufacturer: 6 Longteng Road, Kunshan Economic and Technological Development Zone, Jiangsu Province, China	China	No Official Website	Fairphone 4	Display, Touch Screen (Components)
Tier 2	Rayprus	1	Manufacturer: No.1216LanHua Road,Jin Cheng Economic&Technology Development Zone,ShanXi, China. 048000.	China	<a href="http://www.rayprustech.com">www.rayprustech.com</a>	Fairphone 4	Camera
Tier 2	Kunshan Q Tech Microelectronics Co., Ltd.	2	Manufacturer: NO.89 Laisi Road,Hi-Tech Development Zone, KunShan, Jiangsu Province/NO.3 Taihong Road, Hi-tech Industrial Development Zone KunShan,Jiangsu Province	China	<a href="http://www.qtechsmartvision.com">http://www.qtechsmartvision.com</a>	Fairphone 5	Camera
Tier 2	Kinwong Electronic Technology (Zhuhai) Co.,Ltd	1	Manufacturer: No.801,Nanshui Avenue,Nanshui Town,Jinwan District,Zhuhai,Guangdong	China	<a href="http://www.kinwong.com">www.kinwong.com</a>	Fairphone 5	Flexible Printed Circuits
Tier 2	Tripod	1	Manufacturer: No.1, Middle Section, Mianzhou Avenue, Xiantao City, Hubei Province	China	<a href="https://www.tripod-tech.com/">https://www.tripod-tech.com/</a>	Fairphone 4	Flexible Printed Circuits
Tier 2	Shenzhen Hongneng Circuit Technology Co., Ltd	1	Manufacturer: Huayu industrial Sancun street, Doumen District,Zhuhai China	China	No Official Website	Fairphone 4, Fairphone 5	Flexible Printed Circuits
Tier 2	Dongguan Jinping Electronic Co. , Ltd.	1	Manufacturer: Room 110, No. 75, Shijie Xinfeng West Road, Shijie Town, Dongguan City, Guangdong Province	China	No Official Website	Fairbuds XL	Flexible Printed Circuits
Tier 2	Shenzhen Qili Multilayer Circuit Board Co. , Ltd.	1	Manufacturer: 118 Shajing Road, Baoan District, Shenzhen	China	No Official Website	Fairbuds XL, Fairbuds	Flexible Printed Circuits
Tier 2	Shenzhen e-schindler Electronic Technology Co. , Ltd.	1	Manufacturer: Fuhai Street Qiaotou Community Fugiao fifth industrial zone, Bao'an District, Shenzhen City	China	<a href="http://www.0755fpc.com">http://www.0755fpc.com</a>	Fairbuds	Flexible Printed Circuits
Tier 2	Shenzhen Lizhi Hongyuan Electronics Co. , Ltd.	1	Manufacturer: South divider, 4F, building 61, Langkou Industrial Zone, Dalang Street, Shun Cheng District, Longhua New District	China	No Official Website	Fairbuds	Flexible Printed Circuits
Tier 2	Alpha assembly Solutions (Shenzhen) co., Ltd.	1	Manufacturer: Tangxiayong Community, Yan luo Town, Baoan District, Shenzhen City, PRC.	China	<a href="http://www.macdermidalpha.com">www.macdermidalpha.com</a>	Fairphone 4, Fairphone 5	Soldering Paste
Tier 2	DONGGUAN KAYO BATTERY CO.,LTD.	1	Manufacturer: NO.2 , ShaJingTou ten Lane, Matigang Village,DaLingShan Town,DongGuan City,GuangDong	China	<a href="http://www.kayobattery.com">www.kayobattery.com</a>	Fairphone 4, Fairphone 5	Battery
Tier 2	Zhuhai Greateon Electronic Technology Co.,Ltd	1	Manufacturer: No. 6, No. 6, Xinqing Technology Industrial Park, Jing'an Town, Doumen District, Zhuhai City (Building A3, Factory)	China	No Official Website	Fairbuds XL, Fairbuds	Battery
Tier 2	Dongguan Lidea Electronics Co.,Ltd	1	Manufacturer: No. 393 Yangxin Road, Yangyong Village, Dalang Town, Dongguan City	China	<a href="http://www.lideapower.com">http://www.lideapower.com</a>	Fairbuds	Battery



Tier	Manufacturer Name	Number of sites	Address: Manufacturer or Headquarters	Manufacturer country	Website	Fairphone Product	Product Supplied
Tier 2	Zhejiang Bozhong Electric Co., Ltd.	1	Manufacturer: 12F warehouse, Building 12, Tiangong Zhigu, 52 Fuhai Road, Xiagang Town, Dongguan City, Guangdong Province	China	No Official Website	Fairbuds	Battery (Holder)
Tier 3	Lifun	1	Manufacturer: J Block, TY Science & Technology Park, No 128, Pioneer Road, Tianyuan District, Zhuzhou City, Hunan Province, P.R. China, Post Code 412007	China	<a href="http://www.ifuntech.com">www.ifuntech.com</a>	Fairphone 5	Battery (Components)
Tier 3	Yuliang	1	Manufacturer: Shabu No.2 Industrial Zone, Dalang Town, Dongguan Guangdong, China	China	No Official Website	Fairphone 4, Fairphone 5	Battery (Components)
Tier 3	Amperex Technology	1	Manufacturer: 1 West Industrial Road, Songshan Lake Dongguan, Guangdong, China	China	No Official Website	Fairphone 4	Battery (Components)
Tier 2	Dongguan Jifeng Electronic Materials Co., Ltd.	1	Manufacturer: No. 25, Xinfeng West Road, Shizhen Town, Dongguan City	China	No Official Website	Fairbuds XL, Fairbuds	Plastics
Tier 2	DONG GUAN YUAN JUN METAL&PLASTIC CO., LTD	1	Manufacturer: Room 101, Building 2, No.7 ,No. 1Industrial Street, tangbiantou, Dongcheng Street, Dongguan City, GD Pro	China	No Official Website	Fairphone 4, Fairphone 5	Plastics
Tier 2	MoldTek Metal&Plastic CO., LTD	1	Manufacturer: 2nd Horizontal Road 70 Zhuan Yao industrial zone WenTang village Dongcheng District, Dongguan City, Guangdong Province, China	China	<a href="https://www.grp-jb.com/group-detail/moldtek/">https://www.grp-jb.com/group-detail/moldtek/</a>	Fairbuds XL, Fairbuds	Plastics
Tier 2	Dongguan Bailang Silicone Rubber Products Co., Ltd.	1	Manufacturer: No. 63, Shapu Second Industrial Zone, Dalang Town, Dongguan City	China	No Official Website	Fairbuds XL, Fairbuds	Plastics
Tier 2	Dongguan bullet silicone rubber products Co., LTD	1	Manufacturer: No.19 North Xiangxi Yanhe Road, Shipai Town, Dongguan City, Guangdong Province	China	No Official Website	Fairbuds	Plastics
Tier 2	Pan Da Plastic Products Co., Ltd. Dongguan	1	Manufacturer: No. 8 South Fourth Street, Qiaotou East Road, Qiaotou Town, Dongguan City, Guangdong Province	China	No Official Website	Fairbuds	Plastics
Tier 3	Sabic	1	Headquarters: PO Box 5101, Riyadh 11422, Saudi Arabia	Saudi Arabia	No Official Website	Fairphone 4, Fairphone 5	Plastics (Components)
Tier 3	Covestro	1	Headquarters: Leverkusen Kaiser-Wilhelm-Allee 60 51373 Leverkusen, Germany	Germany	No Official Website	Fairphone 4, Fairphone 5	Plastics (Components)
Tier 3	Mocom	1	Headquarters: Mühlenhagen 35, DE - 20539 Hamburg, Germany	Germany	No Official Website	Fairphone 4, Fairphone 5	Plastics (Components)
Tier 3	Global Green Material	1	Manufacturer: No. 525, Sec. Yongxing, Fanghan Rd., Fangyuan Township 528011 Changhua, Taiwan, TW	Taiwan	<a href="http://www.globalgreenmaterial.com">www.globalgreenmaterial.com</a>	Fairbuds XL	Plastics (Components)
Tier 2	Huizhou Speed Wireless Technology Co.,Ltd	1	Manufacturer: No.138 Huize Avenue, Dongjiang High-tech Industrial Park, Zhongkai High-tech Zone, Huizhou city, Guangdong Province China	China	<a href="http://www.speed-hz.com">www.speed-hz.com</a>	Fairphone 5	Antenna
Tier 2	SHANGHAI BEIZHE COMMUNICATION TECHNOLOGY CO.,LTD	1	Manufacturer: 105, Building 1, 2899 South Lianhua Road, Minhang District, Shanghai	China	<a href="http://www.szyosong.com">www.szyosong.com</a>	Fairphone 4	Antenna
Tier 2	Shenzhen Zhongruiwang Technology Co., Ltd.	1	Manufacturer: Xili Street Shuguang Community TCL International E City, Nanshan District, Shenzhen City	China	No Official Website	Fairbuds	Antenna
Tier 2	Dongguan Huiyi Precision Metal Products Co., LTD	1	Manufacturer: Building 2, No. 1 Tianliu Shuihan Road, Shipai, Dongguan, Dongguan City, Guangdong province	China	No Official Website	Fairbuds XL	Shields, Metal Parts
Tier 2	Dongguan Yisun Hardware Technology Co., LTD	1	Manufacturer: No. 2, Xinfeng Road, Zhenhua Industrial Zone, Zhenhua Industrial Zone, Dongguan City, Guangdong	China	No Official Website	Fairbuds XL, Fairbuds	Shields, Metal Parts
Tier 2	Inst new magnetic materials, Baotou	1	Manufacturer: Inner Mongolia 19 Aratankhan Street, Baotou Rare Earth high-tech zone	China	No Official Website	Fairbuds	Shields, Metal Parts
Tier 2	DONGGUAN XIANG JIANG XIN PRECISION TECHNOLOGY CO., LTD	1	Manufacturer: Building 7, No. 3, Xingyuan Road, Fenggang Town, Dongguan City	China	No Official Website	Fairphone 5	Shields, Metal Parts
Tier 2	Qorvo	2	Manufacturer: No. 6868 Dongfanghong East Road, Dezhou Economic & Technological Development Area, Dezhou City, Shandong Province 253084, P. R. China No.17 Tongji Middle Road, the Industrial Park of Beijing Economic and Technological Development Area 100176 Beijing P.R. China	China	<a href="http://www.qorvo.com">www.qorvo.com</a>	Fairphone 4, Fairphone 5	Shields, Metal Parts
Tier 2	Dongguan Chengguang Precision Industry Co., Ltd.	1	Manufacturer: No.272,Kangle South Road, Houjie Town, Dongguan City, Guangdong Province	China	<a href="http://www.avy.com.tw">www.avy.com.tw</a>	Fairphone 4	Shields, Metal Parts
Tier 2	Jits	1	Manufacturer: Building 7, No.391, Shatian section, Gangkou Avenue, Shatian Town, Dongguan City, Guangdong Province	China	<a href="http://WWW.JITSTECH.COM">WWW.JITSTECH.COM</a>	Fairphone 4, Fairphone 5	Shields, Metal Parts
Tier 2	Xiangjian Precision Industry (Shenzhen) co.,Ltd	1	Manufacturer: Building 42, Datian Yangxifang Industrial Zone, Dongfang Community, Songgang Street, Bao'an District, Shenzhen City, Guangdong Province	China	<a href="http://www.szxj.net">www.szxj.net</a>	Fairphone 4, Fairphone 5	Shields, Metal Parts
Tier 2	Shenzhen Baizhuo Technology Co., LTD	1	Manufacturer: 101, No. 3, Gegongling Industrial Zone, Liulian Community, Pingdi Street, Longgang District, Shenzhen City, Guangdong Province	China	No Official Website	Fairphone 4	Shields, Metal Parts

Tier	Manufacturer Name	Number of sites	Address: Manufacturer or Headquarters	Manufacturer country	Website	Fairphone Product	Product Supplied
Tier 3	Winjoy	1	Manufacturer: No.27 Shengxing Road, Hangzhou Bay Shangyu Economic and Technological Development Area, Zhejiang Province	China	<a href="https://en.chinawinjoy.com/">https://en.chinawinjoy.com/</a>	Fairphone 5	Shields, Metal Parts (Components)
Tier 3	YongZhen JingPing	1	Manufacturer: 8-25 rare earth street, high-tech industrial base, rare earth high-tech zone, baotou, inner mongolia autonomous region	China	<a href="http://www.yzjpc.com/">http://www.yzjpc.com/</a>	Fairphone 5	Shields, Metal Parts (Components)
Tier 3	Kam Kiu Aluminum Extrusion Co., Ltd	1	Manufacturer: Shiqiao Industrial Zone, Dajiang Country, Taishan City, Guangdong, China	China	No Official Website	Fairphone 4	Shields, Metal Parts (Components)
Tier 2	HUI ZHOU SHI LONGQIAO NEW MATERIAL CO.,LTD.	1	Manufacturer: 5/F, building B, NO.108 west huifeng third road, chenjiang street, zhongkai high-tech zone, huizhou	China	<a href="http://www.gdhezq.com">www.gdhezq.com</a>	Fairphone 5	Packaging , Labels, Adhesive
Tier 2	Huizhou Hairunxin New Material Technology Co., Ltd	1	Manufacturer: A1,Building 18, Alex Industrial Park, No. 19, Huifeng East 1st Road, Huitai industrial Zone, Huizhou City, Guangdong province	China	No Official Website	Fairphone 4, Fairphone 5	Packaging , Labels, Adhesive
Tier 2	Litop (Shenzhen) printing Co.,Ltd	1	Manufacturer: Room 101.201, Building 1, Building A46, Fucheng'ao Industrial Zone, Fucheng'ao Community, Pinghu Street, Longgang District, Shenzhen	China	No Official Website	Fairphone 4, Fairphone 5	Packaging , Labels, Adhesive
Tier 2	Huizhou Hengwei paper Packaging Co., LTD	1	Manufacturer: Lianxi Industrial Zone, Zhenlong Town, Huiyang District, Huizhou City, Guangdong Province	China	No Official Website	Fairphone 4, Fairphone 5	Packaging , Labels, Adhesive
Tier 2	Guangdong Ideal Color Printing Co., Ltd.	1	Manufacturer: Longling Industrial Park, Yuancheng District, Heyuan City, Guangdong Province	China	<a href="http://www.hkideal-ltd.com">www.hkideal-ltd.com</a>	Fairphone 4, Fairphone 5	Packaging , Labels, Adhesive
Tier 2	Shenzhen Baolijia Plastic Co., LTD	1	Manufacturer: Building A28, Pinghu Fucheng Ao Industrial Zone, Longgang District, Shenzhen	China	No Official Website	Fairphone 4	Packaging , Labels, Adhesive
Tier 2	GuangDong JiaYa Industrial co.,LTD. (Jiaya)	1	Manufacturer: No.9.Zone ZhongKai High-Technology Development Zone HuiZhou GuangDong China	china	<a href="http://www.jiaya.com">www.jiaya.com</a>	Fairphone 4, Fairphone 5	Packaging , Labels, Adhesive
Tier 2	HAOPIN TECHNOLOGY	1	Manufacturer: ALuotang Factory A, Shuikou Street Office, Huicheng District, Huizhou City, Guangdong Province, China	China	<a href="http://www.haopin168.com/">http://www.haopin168.com/</a>	Fairphone 4	Packaging , Labels, Adhesive
Tier 2	Shanghai Huitian New Material Co., Ltd.	1	Manufacturer: No.251 Wenji Rd, Songjiang of Shanghai	China	<a href="http://www.huitian.net.cn/">http://www.huitian.net.cn/</a>	Fairphone 4	Packaging , Labels, Adhesive
Tier 2	Dongguan Law Fung Electronic Technology Limited	1	Manufacturer: No. 60, Zengbu New City Industrial Zone, Chashan Town, Dongguan City	China	No Official Website	Fairbuds XL	Headband & Earcap
Tier 2	Star technology	1	Manufacturer: No. 9, Shanghenglang Fourth Industrial Zone, Tongsheng Community, Dalang Street, Longhua District, Shenzhen	China	No Official Website	Fairbuds XL	Module
Tier 2	Dongguan Yu Yeung Hardware Products Co. Ltd.	1	Manufacturer: 2nd Floor, Building B, Building 30, Aimin Road, Lushan Town, Dongguan City	China	No Official Website	Fairbuds XL, Fairbuds	Screws,fasteners, Adhesives, Glue
Tier 2	3M	1	Manufacturer: No. 9, Nanxiang 2nd Road, Science City, High-tech Development Zone, Guangzhou	China	<a href="https://www.3m.com.cn">https://www.3m.com.cn</a>	Fairphone 5	Screws,fasteners, Adhesives, Glue
Tier 3	Chaohu Yunhai Magnesium	1	Manufacturer: Intersection of Yunhua Avenue and Wanjiashan Road, Xiage Town, Chaohu City, Anhui, China	China	No Official Website	Fairphone 4, Fairphone 5	Components (Magnesium Alloy)
Tier 3	Yuhang	1	Manufacturer: Fuhai Road, Handian Town, Zouping City, Binzhou City, Shandong, China	China	No Official Website	Fairphone 5	Components (Alluminium Alloy)
Tier 3	Huihuang	1	Manufacturer: E17, Asia Metal Resource Recycling Industrial Base, Longfu town Sihui, Guangdong, China	China	No Official Website	Fairbuds XL	Components (Alluminium Alloy)

## Annex 2: List of smelters and refiners

All the details shared here are accurate to the best of our knowledge at the time of publication. Inclusion on the list does not imply that these smelters and refiners are fairer than their competitors, or that Fairphone has a direct relationship with these companies and is influencing their business practices. We will update the information yearly and are currently collecting smelter and refiner information related to our other focus materials, and will publish it in a future edition of this document.

The Responsible Minerals Assurance Programme (RMAP) by Responsible Minerals Initiative (RMI) audits smelters and refiners on their due diligence practices with regards to minerals from high-risk and conflict-affected areas. The annex will show for each smelter or refiner one of the following statuses:

### **Audit-passed**

Smelters or refiners that are verified to be in compliance with RMI standards or one of the cross-recognized certification programs (more information at: RMI Minerals Due Diligence Standards).

### **Audit not passed**

Smelters or refiners that have been audited and found not conformant. They are following up with RMI to become conformant, or still require further outreach to join certification program(s).

### **Engaged in auditing process**

Smelters or refiners that are engaged in the program with a scheduled or in-progress RMI assessment, who are not yet conformant.

### **In communication with RMI about audit**

Facilities that have not been audited yet and are in communication with the RMI and/or member company.

### **Not engaged in auditing process**

Outreach needed by RMI member companies to contact entities and encourage their participation to undergo an RMI assessment.

### **Unable to Proceed**

Facilities that were not able to continue the due diligence process after a period of 6 months or more, for example due to geopolitical reasons.

Not Applicable: smelters or refiners that are not eligible for an RMI assessment, which may be if the facility is not a smelter or refiner, is not yet operational, operations have been suspended, or it is not clear if the facility is a smelter or refiner.

GOLD			
Smelter ID	Standard Smelter Name	Country Location	Audit Status
CID001147	Metalor Technologies (Suzhou) Ltd.	CHINA	Audit Passed
CID001078	LS MnM Inc.	KOREA, REPUBLIC OF	Audit Passed
CID000807	Ishifuku Metal Industry Co., Ltd.	JAPAN	Audit Passed
CID000937	JX Nippon Mining & Metals Co., Ltd.	JAPAN	Audit Passed
CID001149	Metalor Technologies (Hong Kong) Ltd.	CHINA	Audit Passed
CID001153	Metalor Technologies S.A.	SWITZERLAND	Audit Passed
CID001157	Metalor USA Refining Corporation	UNITED STATES OF AMERICA	Audit Passed
CID001152	Metalor Technologies (Singapore) Pte., Ltd.	SINGAPORE	Audit Passed
CID000707	Heraeus Metals Hong Kong Ltd.	CHINA	Audit Passed
CID002030	Western Australian Mint (T/a The Perth Mint)	AUSTRALIA	Audit Passed
CID000082	Asahi Pretec Corp.	JAPAN	Audit Passed
CID001119	Matsuda Sangyo Co., Ltd.	JAPAN	Audit Passed
CID001188	Mitsubishi Materials Corporation	JAPAN	Audit Passed
CID001193	Mitsui Mining and Smelting Co., Ltd.	JAPAN	Audit Passed
CID001259	Nihon Material Co., Ltd.	JAPAN	Audit Passed
CID003879	Toyo Smelter & Refinery	JAPAN	Not Applicable
CID001875	Tanaka Kikinzoku Kogyo K.K.	JAPAN	Audit Passed
CID001938	Tokuriki Honten Co., Ltd.	JAPAN	Audit Passed
CID002224	Zhongyuan Gold Smelter of Zhongjin Gold Corporation	CHINA	Audit Passed
CID001736	Sichuan Tianze Precious Metals Co., Ltd.	CHINA	Audit Passed
CID002003	Valcambi S.A.	SWITZERLAND	Audit Passed
CID000077	Argor-Heraeus S.A.	SWITZERLAND	Audit Passed
CID001352	MKS PAMP SA	SWITZERLAND	Audit Passed
CID001761	Solar Applied Materials Technology Corp.	TAIWAN	Audit Passed
CID000019	Aida Chemical Industries Co., Ltd.	JAPAN	Audit Passed
CID000401	Dowa	JAPAN	Audit Passed
CID000981	Kojima Chemicals Co., Ltd.	JAPAN	Audit Passed
CID001622	Shandong Zhaojin Gold & Silver Refinery Co., Ltd.	CHINA	Audit Passed
CID000855	Jiangxi Copper Co., Ltd.	CHINA	Audit Passed
CID000924	Asahi Refining Canada Ltd.	CANADA	Audit Passed
CID000694	Heimerle + Meule GmbH	GERMANY	Audit Passed
CID001980	Umicore S.A. Business Unit Precious Metals Refining	BELGIUM	Audit Passed
CID001993	United Precious Metal Refining, Inc.	UNITED STATES OF AMERICA	Audit Passed
CID000823	Japan Mint	JAPAN	Audit Passed
CID002778	WIELAND Edelmetalle GmbH	GERMANY	Audit Passed
CID000015	Advanced Chemical Company	UNITED STATES OF AMERICA	Engaged in auditing process
CID000035	Agosi AG	GERMANY	Audit Passed
CID000041	Almalyk Mining and Metallurgical Complex (AMMC)	UZBEKISTAN	Audit Passed
CID000058	AngloGold Ashanti Corrego do Sitio Mineracao	BRAZIL	Audit Passed

CID000090	Asaka Riken Co., Ltd.	JAPAN	Audit Passed
CID000113	Aurubis AG	GERMANY	Audit Passed
CID000128	Bangko Sentral ng Pilipinas (Central Bank of the Philippines)	PHILIPPINES	Audit Passed
CID000157	Boliden Ronnskar	SWEDEN	Audit Passed
CID000176	C. Hafner GmbH + Co. KG	GERMANY	Audit Passed
CID000185	CCR Refinery - Glencore Canada Corporation	CANADA	Audit Passed
CID000189	Cendres + Metaux S.A.	SWITZERLAND	Audit not passed
CID000233	Chimet S.p.A.	ITALY	Audit Passed
CID000264	Chugai Mining	JAPAN	Audit Passed
CID000359	DSC (Do Sung Corporation)	KOREA, REPUBLIC OF	Audit Passed
CID000425	Eco-System Recycling Co., Ltd. East Plant	JAPAN	Audit Passed
CID000689	LT Metal Ltd.	KOREA, REPUBLIC OF	Audit Passed
CID000711	Heraeus Germany GmbH Co. KG	GERMANY	Audit Passed
CID000801	Inner Mongolia Qiankun Gold and Silver Refinery Share Co., Ltd.	CHINA	Audit Passed
CID000814	Istanbul Gold Refinery	TURKEY	Audit Passed
CID000920	Asahi Refining USA Inc.	UNITED STATES OF AMERICA	Audit Passed
CID000957	Kazzinc	KAZAKHSTAN	Audit Passed
CID000969	Kennecott Utah Copper LLC	UNITED STATES OF AMERICA	Audit Passed
CID001113	Materion	UNITED STATES OF AMERICA	Audit Passed
CID001161	Metalurgica Met-Mex Penoles S.A. De C.V.	MEXICO	Audit Passed
CID001220	Nadir Metal Rafineri San. Ve Tic. A.S.	TURKEY	Audit Passed
CID001236	Navoi Mining and Metallurgical Combinat	UZBEKISTAN	Audit Passed
CID001325	Ohura Precious Metal Industry Co., Ltd.	JAPAN	Audit Passed
CID001397	PT Aneka Tambang (Persero) Tbk	INDONESIA	Audit Passed
CID001498	PX Precinox S.A.	SWITZERLAND	Audit Passed
CID001512	Rand Refinery (Pty) Ltd.	SOUTH AFRICA	Audit Passed
CID001534	Royal Canadian Mint	CANADA	Audit Passed
CID001555	Samduck Precious Metals	KOREA, REPUBLIC OF	Audit not passed
CID001585	SEMPSA Joyeria Plateria S.A.	SPAIN	Audit Passed
CID001916	Shandong Gold Smelting Co., Ltd.	CHINA	Audit Passed
CID001955	Torecom	KOREA, REPUBLIC OF	Audit Passed
CID002100	Yamakin Co., Ltd.	JAPAN	Audit Passed
CID002129	Yokohama Metal Co., Ltd.	JAPAN	Audit Passed
CID002243	Gold Refinery of Zijin Mining Group Co., Ltd.	CHINA	Audit Passed
CID002290	SAFINA A.S.	CZECHIA	Audit Passed
CID002314	Umicore Precious Metals Thailand	THAILAND	Audit not passed
CID002459	Geib Refining Corporation	UNITED STATES OF AMERICA	Audit Passed
CID002509	MMTC-PAMP India Pvt., Ltd.	INDIA	Audit Passed
CID002511	KGHM Polska Miedz Spolka Akcyjna	POLAND	Audit Passed
CID002516	Singway Technology Co., Ltd.	TAIWAN	Audit not passed
CID002560	Al Etihad Gold Refinery DMCC	UNITED ARAB EMIRATES	Audit not passed
CID002561	Emirates Gold DMCC	UNITED ARAB EMIRATES	Audit not passed

CID002580	T.C.A S.p.A	ITALY	Audit Passed
CID002582	REMONDIS PMR B.V.	NETHERLANDS	Audit Passed
CID002605	Korea Zinc Co., Ltd.	KOREA, REPUBLIC OF	Audit Passed
CID002615	TOO Tau-Ken-Alty	KAZAKHSTAN	Audit Passed
CID002708	Abington Reldan Metals, LLC	UNITED STATES OF AMERICA	Audit Passed
CID002761	SAAMP	FRANCE	Audit not passed
CID002762	L'Orfebre S.A.	ANDORRA	Audit Passed
CID002763	8853 S.p.A.	ITALY	Audit not passed
CID002765	Italpreziosi	ITALY	Audit Passed
CID002779	Ogussa Österreichische Gold- und Silber-Scheideanstalt GmbH	AUSTRIA	Audit Passed
CID002852	GGC Gujrat Gold Centre Pvt. Ltd.	INDIA	Engaged in auditing process
CID002863	Bangalore Refinery	INDIA	Engaged in auditing process
CID002918	SungEel HiMetal Co., Ltd.	KOREA, REPUBLIC OF	Audit Passed
CID002919	Planta Recuperadora de Metales SpA	CHILE	Audit Passed
CID002973	Safimet S.p.A	ITALY	Audit not passed
CID003189	NH Recytech Company	KOREA, REPUBLIC OF	Audit Passed
CID003421	C.I Metales Procesados Industriales SAS	COLOMBIA	Not Applicable
CID003424	Eco-System Recycling Co., Ltd. North Plant	JAPAN	Audit Passed
CID003425	Eco-System Recycling Co., Ltd. West Plant	JAPAN	Audit Passed
CID003461	Augmont Enterprises Private Limited	INDIA	Engaged in auditing process
CID003500	Alexy Metals	UNITED STATES OF AMERICA	Audit not passed
CID003529	Sancus ZFS (L'Orfebre, SA)	COLOMBIA	Audit Passed
CID003575	Metal Concentrators SA (Pty) Ltd.	SOUTH AFRICA	Audit Passed
CID003615	WEEEREFINING	FRANCE	Audit Passed
CID003641	Gold by Gold Colombia	COLOMBIA	Audit Passed
CID002606	Marsam Metals	BRAZIL	Audit not passed
CID001798	Sumitomo Metal Mining Co., Ltd.	JAPAN	Audit Passed
<b>Tantalum</b>			
Smelter ID	Standard Smelter Name	Country Location	Audit Status
CID001277	Ningxia Orient Tantalum Industry Co., Ltd.	CHINA	Audit Passed
CID001969	Ulba Metallurgical Plant JSC	KAZAKHSTAN	Audit Passed
CID002557	Global Advanced Metals Boyertown	UNITED STATES OF AMERICA	Audit Passed
CID002548	Materion Newton Inc.	UNITED STATES OF AMERICA	Audit Passed
CID000460	F&X Electro-Materials Ltd.	CHINA	Audit Passed
CID002544	TANIOBIS Co., Ltd.	THAILAND	Audit Passed
CID002545	TANIOBIS GmbH	GERMANY	Audit Passed
CID002550	TANIOBIS Smelting GmbH & Co. KG	GERMANY	Audit Passed
CID000211	Changsha South Tantalum Niobium Co., Ltd.	CHINA	Audit Passed
CID000616	XIMEI RESOURCES (GUANGDONG) LIMITED	CHINA	Audit Passed
CID000914	JiuJiang JinXin Nonferrous Metals Co., Ltd.	CHINA	Audit Passed
CID000917	Jiujiang Tanbre Co., Ltd.	CHINA	Audit Passed



CID001163	Metallurgical Products India Pvt., Ltd.	INDIA	Audit Passed
CID001192	Mitsui Mining and Smelting Co., Ltd.	JAPAN	Audit Passed
CID001200	NPM Silmet AS	ESTONIA	Audit Passed
CID002492	Hengyang King Xing Lifeng New Materials Co., Ltd.	CHINA	Audit Passed
CID002504	D Block Metals, LLC	UNITED STATES OF AMERICA	Audit Passed
CID002505	FIR Metals & Resource Ltd.	CHINA	Audit Passed
CID002512	Jiangxi Dinghai Tantalum & Niobium Co., Ltd.	CHINA	Audit Passed
CID002547	QSIL Metals Hermsdorf GmbH	GERMANY	Not Applicable
CID002549	TANIOBIS Japan Co., Ltd.	JAPAN	Audit Passed
CID002558	Global Advanced Metals Aizu	JAPAN	Audit Passed
CID002842	Jiangxi Tuohong New Raw Material	CHINA	Audit Passed
CID001869	Taki Chemical Co., Ltd.	JAPAN	Audit Passed
CID001076	AMG Brasil	BRAZIL	Audit Passed
CID001175	Mineracao Taboca S.A.	BRAZIL	Audit Passed
CID001508	QuantumClean	UNITED STATES OF AMERICA	Audit Passed
CID001522	Yanling Jincheng Tantalum & Niobium Co., Ltd.	CHINA	Audit Passed
CID001891	Telex Metals	UNITED STATES OF AMERICA	Audit Passed
CID002506	Jiujiang Zhongao Tantalum & Niobium Co., Ltd.	CHINA	Audit Passed
CID002508	XinXing HaoRong Electronic Material Co., Ltd.	CHINA	Audit Passed
CID002539	KEMET de Mexico	MEXICO	Audit Passed
CID002707	Resind Industria e Comercio Ltda.	BRAZIL	Audit Passed
CID003583	RFH Yancheng Jinye New Material Technology Co., Ltd.	CHINA	Audit Passed
CID001769	Solikamsk Magnesium Works OAO	RUSSIAN FEDERATION	Unable to proceed
<b>Tin</b>			
Smelter ID	Standard Smelter Name	Country Location	Audit Status
CID002180	Tin Smelting Branch of Yunnan Tin Co., Ltd.	CHINA	Audit Passed
CID002158	Yunnan Chengfeng Non-ferrous Metals Co., Ltd.	CHINA	Audit Passed
CID001482	PT Timah Tbk Mentok	INDONESIA	Audit Passed
CID001898	Thaisarco	THAILAND	Audit Passed
CID001460	PT Refined Bangka Tin	INDONESIA	Audit Passed
CID001477	PT Timah Tbk Kundur	INDONESIA	Audit Passed
CID001182	Minsur	PERU	Audit Passed
CID001539	Rui Da Hung	TAIWAN	Audit Passed
CID002517	O.M. Manufacturing Philippines, Inc.	PHILIPPINES	Audit Passed
CID000538	Gejiu Non-Ferrous Metal Processing Co., Ltd.	CHINA	Audit Passed
CID000228	Chenzhou Yunxiang Mining and Metallurgy Co., Ltd.	CHINA	Audit Passed
CID001105	Malaysia Smelting Corporation (MSC)	MALAYSIA	Audit Passed
CID002773	Aurubis Beerse	BELGIUM	Audit Passed
CID001173	Mineracao Taboca S.A.	BRAZIL	Audit Passed
CID000292	Alpha	UNITED STATES OF AMERICA	Audit Passed

CID000402	Dowa	JAPAN	Audit Passed
CID000438	EM Vinto	BOLIVIA (PLURINATIONAL STATE OF)	Audit Passed
CID000468	Fenix Metals	POLAND	Audit Passed
CID001070	China Tin Group Co., Ltd.	CHINA	Audit Passed
CID001142	Metallic Resources, Inc.	UNITED STATES OF AMERICA	Audit Passed
CID001191	Mitsubishi Materials Corporation	JAPAN	Audit Passed
CID001231	Jiangxi New Nanshan Technology Ltd.	CHINA	Audit Passed
CID001314	O.M. Manufacturing (Thailand) Co., Ltd.	THAILAND	Audit Passed
CID001337	Operaciones Metalurgicas S.A.	BOLIVIA (PLURINATIONAL STATE OF)	Audit Passed
CID001399	PT Artha Cipta Langgeng	INDONESIA	Audit Passed
CID001406	PT Babel Surya Alam Lestari	INDONESIA	Audit Passed
CID001453	PT Mitra Stania Prima	INDONESIA	Audit Passed
CID001458	PT Prima Timah Utama	INDONESIA	Audit Passed
CID001468	PT Stanindo Inti Perkasa	INDONESIA	Audit Passed
CID001490	PT Tinindo Inter Nusa	INDONESIA	Audit Passed
CID002036	White Solder Metalurgia e Mineracao Ltda.	BRAZIL	Audit Passed
CID002503	PT ATD Makmur Mandiri Jaya	INDONESIA	Audit Passed
CID002774	Aurubis Berango	SPAIN	Audit Passed
CID002834	Thai Nguyen Mining and Metallurgy Co., Ltd.	VIET NAM	Not Applicable
CID002835	PT Menara Cipta Mulia	INDONESIA	Audit Passed
CID003116	Guangdong Hanhe Non-Ferrous Metal Co., Ltd.	CHINA	Audit Passed
CID003205	PT Bangka Serumpun	INDONESIA	Audit Passed
CID003325	Tin Technology & Refining	UNITED STATES OF AMERICA	Audit Passed
CID003379	Ma'anshan Weitai Tin Co., Ltd.	CHINA	Audit not passed
CID003381	PT Rajawali Rimba Perkasa	INDONESIA	Audit Passed
CID003387	Luna Smelter, Ltd.	RWANDA	Audit Passed
CID002593	PT Rajehan Ariq	INDONESIA	Audit Passed
CID001402	PT Babel Inti Perkasa	INDONESIA	Audit Passed
CID001428	PT Bukit Timah	INDONESIA	Audit Passed
CID003449	PT Mitra Sukses Globalindo	INDONESIA	Audit Passed
CID001463	PT Sariwiguna Binasentosa	INDONESIA	Audit Passed
CID002696	PT Cipta Persada Mulia	INDONESIA	Audit Passed
CID003524	CRM Synergies	SPAIN	Audit Passed
CID003582	Fabrica Auricchio Industria e Comercio Ltda.	BRAZIL	Audit Passed
CID001493	PT Tommy Utama	INDONESIA	Audit Passed
CID002455	CV Venus Inti Perkasa	INDONESIA	Audit Passed
CID003868	PT Putera Sarana Shakti (PT PSS)	INDONESIA	Audit Passed
CID002816	PT Sukses Inti Makmur (SIM)	INDONESIA	Audit Passed
CID003190	Chifeng Dajingzi Tin Industry Co., Ltd.	CHINA	Audit Passed
CID000309	PT Aries Kencana Sejahtera	INDONESIA	Audit Passed
CID000313	PT Premium Tin Indonesia	INDONESIA	Audit Passed
CID000448	Estanho de Rondonia S.A.	BRAZIL	Audit Passed



CID000555	Gejiu Zili Mining And Metallurgy Co., Ltd.	CHINA	Audit not passed
CID002468	Magnum's Minerais Metais e Ligas Ltda.	BRAZIL	Audit Passed
CID002706	Resind Industria e Comercio Ltda.	BRAZIL	Audit Passed
CID002756	Super Ligas	BRAZIL	Audit Passed
CID002776	PT Bangka Prima Tin	INDONESIA	Audit Passed
CID003486	CRM Fundacao De Metais E Comercio De Equipamentos Eletronicos Do Brasil Ltda	BRAZIL	Audit Passed
CID003831	DS Myanmar	MYANMAR	Audit Passed
CID002570	CV Ayi Jaya	INDONESIA	Audit Passed
CID001908	Gejiu Yunxin Nonferrous Electrolysis Co., Ltd.	CHINA	Audit not passed
CID001486	PT Timah Nusantara	INDONESIA	Audit Passed
CID002844	HuiChang Hill Tin Industry Co., Ltd.	CHINA	Audit Passed
CID000847	JiangSu Sinonic Precision Alloy Technology CO. LTD	CHINA	Audit not passed
<b>Tungsten</b>			
Smelter ID	Standard Smelter Name	Country Location	Audit Status
CID002317	Jiangxi Xincheng Tungsten Industry Co., Ltd.	CHINA	Audit Passed
CID000218	Guangdong Xianglu Tungsten Co., Ltd.	CHINA	Audit Passed
CID000766	Hunan Chenzhou Mining Co., Ltd.	CHINA	Audit Passed
CID000825	Japan New Metals Co., Ltd.	JAPAN	Audit Passed
CID000258	Chongyi Zhangyuan Tungsten Co., Ltd.	CHINA	Audit Passed
CID000568	Global Tungsten & Powders LLC	UNITED STATES OF AMERICA	Audit Passed
CID002082	Xiamen Tungsten Co., Ltd.	CHINA	Audit Passed
CID002494	Ganzhou Seadragon W & Mo Co., Ltd.	CHINA	Audit Passed
CID002541	H.C. Starck Tungsten GmbH	GERMANY	Audit Passed
CID002320	Xiamen Tungsten (H.C.) Co., Ltd.	CHINA	Audit Passed
CID002551	Jiangwu H.C. Starck Tungsten Products Co., Ltd.	CHINA	Audit Passed
CID000004	A.L.M.T. Corp.	JAPAN	Audit Passed
CID000105	Kennametal Huntsville	UNITED STATES OF AMERICA	Audit Passed
CID000769	Hunan Jintai New Material Co., Ltd.	CHINA	Audit not passed
CID000875	Ganzhou Huaxing Tungsten Products Co., Ltd.	CHINA	Not Applicable
CID002513	Hunan Shizhuyuan Nonferrous Metals Co., Ltd. Chenzhou Tungsten Products Branch	CHINA	Audit Passed
CID002542	TANIOBIS Smelting GmbH & Co. KG	GERMANY	Audit Passed
CID002543	Masan High-Tech Materials	VIET NAM	Audit Passed
CID002589	Niagara Refining LLC	UNITED STATES OF AMERICA	Audit Passed
CID002044	Wolfram Bergbau und Hutten AG	AUSTRIA	Audit Passed
CID002315	Ganzhou Jiangwu Ferrotungsten Co., Ltd.	CHINA	Audit Passed
CID002316	Jiangxi Yaosheng Tungsten Co., Ltd.	CHINA	Audit Passed
CID002321	Jiangxi Gan Bei Tungsten Co., Ltd.	CHINA	Audit Passed
CID002641	China Molybdenum Tungsten Co., Ltd.	CHINA	Audit Passed
CID002645	Ganzhou Haichuang Tungsten Co., Ltd.	CHINA	Audit Passed

CID003407	Lianyou Metals Co., Ltd.	TAIWAN	Audit Passed
CID000966	Kennametal Fallon	UNITED STATES OF AMERICA	Audit Passed
CID002318	Jiangxi Tonggu Non-ferrous Metallurgical & Chemical Co., Ltd.	CHINA	Audit Passed
CID002319	Malipo Haiyu Tungsten Co., Ltd.	CHINA	Audit Passed
CID002502	Asia Tungsten Products Vietnam Ltd.	VIET NAM	Audit Passed
CID002827	Philippine Chuangxin Industrial Co., Inc.	PHILIPPINES	Audit Passed
CID002833	ACL Metais Eireli	BRAZIL	Audit not passed
CID003417	Hubei Green Tungsten Co., Ltd.	CHINA	Audit Passed
CID003468	Cronimet Brasil Ltda	BRAZIL	Audit Passed
CID003609	Fujian Xinlu Tungsten Co., Ltd.	CHINA	Audit Passed
CID003993	Tungsten Vietnam Joint Stock Company	VIET NAM	Audit Passed
CID002830	Xinfeng Huarui Tungsten & Molybdenum New Material Co., Ltd.	CHINA	Not Applicable
CID003401	Fujian Ganmin RareMetal Co., Ltd.	CHINA	Not Applicable
<b>Cobalt</b>			
Smelter ID	Standard Smelter Name	Country Location	Audit Status
CID003210	Lanzhou Jinchuan Advanced Materials Technology Co., Ltd.	CHINA	Audit Passed
CID003209	Gem (Jiangsu) Cobalt Industry Co., Ltd.	CHINA	Audit Passed
CID003226	Umicore Finland Oy	FINLAND	Audit Passed
CID003228	Umicore Olen	BELGIUM	Audit Passed
CID003927	Anhui Hanrui New Material Co., Ltd.	CHINA	Audit Passed
CID003278	Niihama Nickel Refinery, Sumitomo Metal Mining	JAPAN	Audit Passed
CID003225	Zhejiang Huayou Cobalt Company Limited	CHINA	Audit Passed
CID003212	Ganzhou Tengyuan Cobalt New Material Co., Ltd.	CHINA	Audit Passed
CID003232	Dynatec Madagascar Company	MADAGASCAR	Audit Passed
CID003233	JSC Kolskaya Mining and Metallurgical Company (Kola MMC)	RUSSIAN FEDERATION	Unable to proceed
CID003255	Quzhou Huayou Cobalt New Material Co., Ltd.	CHINA	Audit Passed
CID003403	Glencore Nikkelverk Refinery	NORWAY	Not Engaged in auditing process yet
CID003406	Murrin Murrin Nickel Cobalt Plant	AUSTRALIA	Audit Passed
CID003280	Compagnie de Tifnout Tiranimine	MOROCCO	Audit Passed
CID003390	NORILSK NICKEL HARJAVALTA OY	FINLAND	Audit Passed
CID003481	Chizhou CN New Materials and Technology Co., Ltd.	CHINA	Audit Passed
CID003473	CoreMax Corporation	TAIWAN	Audit Passed
CID003415	Cosmo Chemical, Ltd.	KOREA, REPUBLIC OF	Audit Passed
CID003384	Ganzhou Highpower Technology Co., Ltd.	CHINA	Audit Passed
CID003291	Guangdong Jiana Energy Technology Co., Ltd.	CHINA	Audit Passed
CID003213	Guangxi Yinyi Advanced Material Co., Ltd.	CHINA	Audit Passed
CID003610	Guizhou CNGR Resource Recycling Industry Development Co., Ltd.	CHINA	Audit Passed

CID003577	Harima Refinery, Sumitomo Metal Mining	JAPAN	Audit Passed
CID003411	Hunan CNGR New Energy Science & Technology Co., Ltd.	CHINA	Audit Passed
CID003404	Hunan Yacheng New Materials Co., Ltd.	CHINA	Audit Passed
CID003377	Jiangxi Jiangwu Cobalt Industrial Co., Ltd.	CHINA	Audit Passed
CID003338	SungEel HiTech Co., Ltd.	KOREA, REPUBLIC OF	Audit Passed
CID003534	Mechema Taiwan Plant 2	TAIWAN	Audit Passed
CID003264	Chemaf Etoile	CONGO, DEMOCRATIC REPUBLIC OF THE	Audit Passed
CID003974	Fujian Evergreen New Energy Technology Co.	CHINA	Engaged in auditing process
CID003940	Guangdong Fangyuan New Materials Group Co., Ltd.	CHINA	Engaged in auditing process
CID003470	Hunan Jinxin New Material Holding Co., Ltd.	CHINA	Engaged in auditing process
CID003293	Jiangsu Xiongfeng Technology Co., Ltd.	CHINA	Audit Passed
CID004003	Jiangxi Miracle Golden Tiger Cobalt Co. Ltd.	CHINA	Audit Passed
CID003378	Jingmen GEM Co., Ltd.	CHINA	Audit Passed
CID003261	Kamoto Copper Company	CONGO, DEMOCRATIC REPUBLIC OF THE	Audit Passed
CID003275	La Compagnie de Traitement des Rejets de Kingamyambo S.A. (Metalkol S.A.)	CONGO, DEMOCRATIC REPUBLIC OF THE	Audit Passed
CID003279	Mine de Bou-Azzer	MOROCCO	Audit Passed
CID003465	Ningbo Hubang New Material Co., Ltd.	CHINA	Audit Passed
CID003239	Port Colborne Refinery	CANADA	Audit Passed
CID003426	SOCIETE MINIERE DU KATANGA (Kipushi Plant)	CONGO, DEMOCRATIC REPUBLIC OF THE	Audit Passed
CID003266	Societe pour le Traitement du Terril de Lubumbashi (STL)	CONGO, DEMOCRATIC REPUBLIC OF THE	Audit Passed
CID003429	Tenke Fungurume Mining SA	CONGO, DEMOCRATIC REPUBLIC OF THE	Engaged in auditing process
CID003215	Tianjin Maolian Science & Technology Co., Ltd.	CHINA	Audit Passed
CID003526	Zhejiang Greatpower Cobalt Materials Co., Ltd.	CHINA	Audit Passed
CID003398	Zhejiang New Era Zhongneng Technology Co., Ltd.	CHINA	Audit Passed
CID003211	Zhuhai Kelixin Metal Materials Co., Ltd.	CHINA	Audit Passed
CID003875	Vital Materials Plant	CHINA	In communication with RMI about audit
CID003702	Zhejiang Power New Energy Materials Co., Ltd.	CHINA	In communication with RMI about audit
CID003227	Gangzhou Yi Hao Umicore Industry Co.	CHINA	Not Engaged in auditing process yet
<b>Mica</b>			
<b>Smelter ID</b>	<b>Standard Smelter Name</b>	<b>Country Location</b>	<b>Audit Status</b>
CID003512	Yamaguchi Mica	JAPAN	Engaged in auditing process
CID003971	Yamaguchi Mica Co., Ltd. Shinshiro Factory	JAPAN	Engaged in auditing process

CID003970	Yamaguchi Mica Co., Ltd. Toyohashi Factory	JAPAN	Engaged in auditing process
CID003591	Imerys Mica Kings Mountain, Inc.	UNITED STATES OF AMERICA	Not Engaged in auditing process yet
<b>Lithium</b>			
<b>Smelter ID</b>	<b>Standard Smelter Name</b>	<b>Country Location</b>	<b>Audit Status</b>
CID004021	Sichuan Siterui Lithium Industry Co., Ltd.	CHINA	Audit Passed

The background of the image features a dark blue upper section and a lighter blue lower section, separated by a curved line that forms a large, light blue semi-circle.

# ***FAIRPHONE***

Change is in your hands