

# Supply Chain Engagement: from Risk to Impact

Fairphone 4 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.

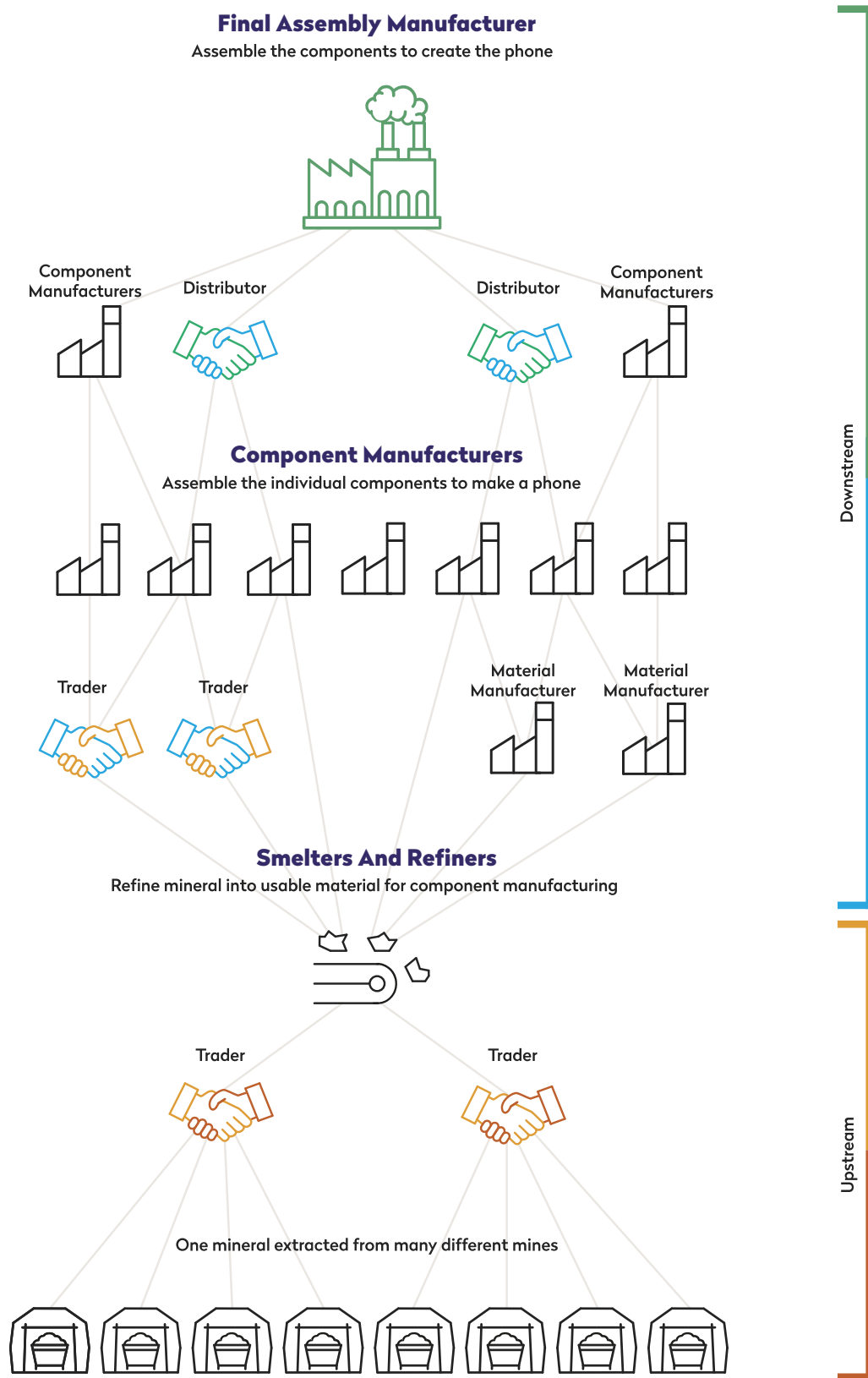
Smartphones are intricate products made up of thousands of different components. Each of these parts comes from different suppliers and contain a wide variety of materials. As a result, our supply chain includes mines, smelters, refiners and multiple tiers of manufacturers that span the entire globe. Many in the industry would call this an impossible task, but 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, 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 4 supply chain to date. It is an update of our [Fairphone 4 supply chain engagement report published in 2021](#), to report on progress made and align with annual reporting cycles.

The report examines our:

- **Downstream components supply chain** — the chips and circuits and pieces of the phone that we buy assembled from other suppliers or assemble ourselves. We'll highlight efforts to improve working conditions and worker satisfaction.
- **Upstream material supply chain** — the metals, plastics, and raw materials that go into those components. We'll explain our approach to due diligence — how we ensure that we comply with existing rules and best practices around materials which are regulated — then look at what we do to push the industry beyond mere compliance toward ever better ethical and sustainable sourcing 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 Downstream component supply chain



## Our approach to identifying and working with suppliers

At Fairphone, we believe that each supplier and workplace requires a tailored approach to create a positive impact that is sustainable. 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. But, as is common in the industry, we contract out the phone's assembly to a specialist company. A phone 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 phone. This is considered tier 1 of the supply chain. The component manufacturers are tier 2. The sub-component suppliers that they work with are tier 3, and companies who work with these component suppliers are tier 4. Over the years, we've been working hard to identify all the different actors involved in making our phones and we update this information regularly.

### 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. Many of these are based on international standards from the United Nations, the OECD, and other regulatory bodies.

We go beyond that code by conducting research, requesting more detailed information, and conducting on-site visits to ensure our direct suppliers are complying with our ethical and sustainability requirements. We also reach out beyond the final assembly manufacturer, conducting risk assessments with their critical suppliers.

We assess all the suppliers involved in Fairphone's production. 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. Our commitment is to improve. As we engage with our suppliers, we aim to always identify opportunities for creating positive change.

We've created financial incentive programmes to reward improvements in worker satisfaction, helped identify worker priorities for workplace enhancements, organized democratic elections for worker representatives and put better mechanisms in place for worker - management feedback and dialogue.

In 2019, Fairphone became the first electronics company to support factory workers with a living wage bonus - a premium we awarded to ensure the wages workers received would meet their needs. Since then, over 2,500 factory workers have received over \$440,000 USD to increase their income.

In addition to the living wage measures, we have seen progress in worker satisfaction attributed to improvements in canteens and dormitories. Personal development courses were put on offer and new communication channels were created for workers to get better access to information and to share their opinions and grievances. Fairphone supported these improvements through guidance and investments in capacity building and training for both workers and management.

Starting with a selection of manufacturers, we're building relationships, completing collaborative evaluations and initiating improvement programs. Some of our initiatives stretch beyond our own supply chain, and include governments, non-profit organizations, industry experts and even other electronics companies. These programs address a variety of issues, ranging from reducing the use of hazardous chemicals at the factories to enhancing employee influence over day-to-day operations by strengthening dialogue between workers and management.

**Current progress**

Fairphone has engaged with suppliers to develop worker voice programs and living wage bonuses. You can read more about these initiatives in the [Our Impact](#) section of our website.

**Worker voice**

At the outset, we identify key areas affecting employee satisfaction and retention using satisfaction surveys and by creating programs to ensure worker's voices are heard and heeded. Based on the needs identified by the workers, Fairphone works with suppliers to jointly develop an improvement program and co-invests in initiatives to improve employee satisfaction and representation.

**Living wage**

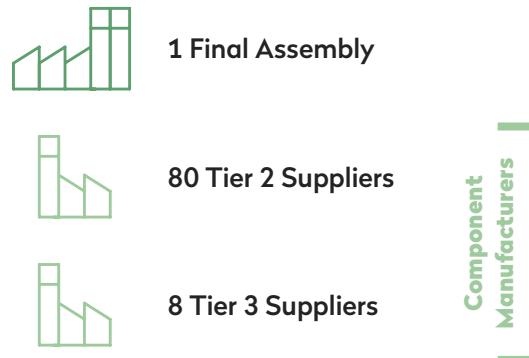
Living wage initiatives are at the center of Fairphone's working conditions agenda. We worked with the final assembly manufacturer of Fairphone 3 to calculate the living wage gap, then calculated how much additional unit price we would need to pay as a bonus, to bring employees assembling the Fairphone up to a living wage. Since 2019, the bonus has been distributed across the entire workforce of the Fairphone 3 & 3+ manufacturer. Starting 2021, we also distribute the living wage bonus to the workers of the final assembly manufacturer of Fairphone 4.

## Fairphone 4 suppliers at a glance

What have we learned about our supply chain so far? Here's a snapshot of the most important findings. Note that these are not all the suppliers in our supply chain. We are mapping the totality step by step.

The first version of Fairphone 4 supplier list presents all the first-tier and second-tier suppliers, as well as the third tier suppliers that we are directly engaged with. The full list of suppliers can be found in Annex 1.

**We've identified a total of 89 suppliers, including:**



**We identified the production facilities of 74 suppliers. Most of these are located in Asia, particularly China:**

Location	Count	%
China	62	83.8%
Taiwan	3	4%
Japan	3	4%
Korea	4	5.4%
Singapore	1	1.4%
Indonesia	1	1.4%



# 3 Upstream materials supply chain — due diligence



## The raw materials that make up our phone

In February of 2021 we published a [Fair Material Sourcing Roadmap](#) that examined the full inventory of metals and plastic that make up our phones. Our goal was to prioritize which materials we wanted to focus on for fair sourcing. We looked at the environmental and social impacts of the extraction and refinement of these materials, 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 up to 2023



Some of these materials are already subject to legislation and regulation, but Fairphone wants to see far greater due diligence exerted by the industry and more protections in place regarding the social and environmental impacts of these materials.

And we want to see more than industry compliance with those protections. We want to see industry engagement with suppliers.

In line with our [Fair Sourcing principles](#), supply chain diligence is not only about managing risks or addressing low hanging fruit; it's about prioritizing and mitigating the highest risks to maximize positive impact. Where there is a risk or challenge, there is opportunity to create impact. You'll see several examples where we work with suppliers to improve the fairness and sustainability of their operations.

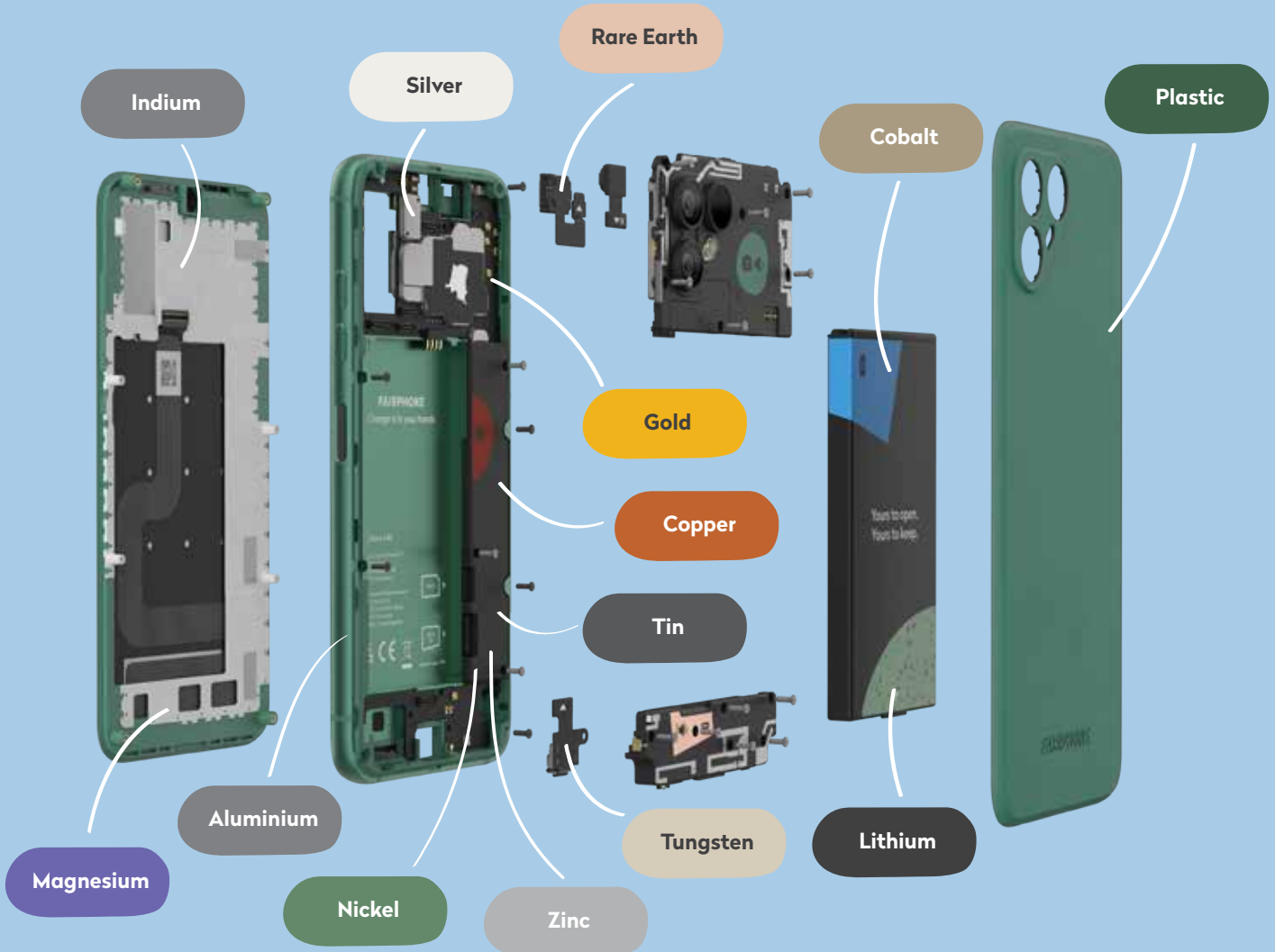
When mining, particularly ASM, is often the primary source of income for an entire community, the responsible option is not necessarily to abandon a supplier at the first sign of a red flag but to work with them to improve, in line with the OECD Guidance.

We and the wider electronic industry have a responsibility to make sure the materials we use are sourced fairly – where (urban) miners are working safely, children are not being exploited and communities are benefitting.

We're proud again this year to be making a positive change in materials supply chains by sourcing more responsibly mined materials, increasing our use of recycled materials and actively seeking partners who can help us achieve these goals.

**Upstream materials supply chain – due diligence**

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 requirements, but to mitigate adverse impacts which are associated with the sourcing of upstream minerals within the supply chain.



This is a simplified visualisation, in reality a lot of these materials can be found in multiple components of a smartphone.

## 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 most 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. And while tantalum is not one of our 14 focus materials we do conduct due diligence by monitoring and identifying risks.
- **Cobalt.** In 2021 Fairphone added cobalt at the forefront of our focus alongside 3TG. Although cobalt is not included in most formal definitions of conflict minerals, it is linked to the same human rights risks as 3TG minerals. Like 3TG, cobalt comes from conflict-affected high risk areas such as the Democratic Republic of Congo, home to more than 50% of the world’s cobalt reserves.

Fairphone’s approach 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.

The supply chain for 3TGs and cobalt consists of many tiers – beginning in the mines and flowing through various traders, exporters, smelters, refiners and multiple manufacturing tiers. 3TG and cobalt are also contained in Fairphone devices and are scattered across dozens if not hundreds of various components.

Fairphone supports and participates in many existing industry efforts to improve due diligence. We are an active member of the Responsible Minerals Initiative. We engage with RMI to synchronize resources and tools. Our engagement includes:

- **Minerals working groups** – Fairphone is a part of the ASM (Artisanal Small Mines), Cobalt, and Due Diligence Working Groups where we help define standards and best practice.
- **Mining standards assessed by RMI** – Fairphone aligns with RMI’s mining standards harmonization efforts when developing and choosing applicable standards for its fair sources.
- **Risk Readiness Assessment (RRA)** – We use the RRA to assess smelter and refiner performance against 32 environmental, social, and governance criteria and use it to identify opportunities to engage.

The Responsible Minerals Initiative (RMI) is a global organization which supports and promotes responsible mineral production and sourcing globally, including in 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.

Their tools and resources support companies in ensuring they conform with the legalities, but also demonstrate how to go above and beyond. Their mission is to ensure that mineral supply chains contribute positively to social and economic development globally.



<sup>1</sup> Key Product Target Group; Smartphones, however we have set an improvement plan below to encompass accessories in the future. NB: This report encompasses smelters and refiners that provide materials for the Fairphone 4. Previous reports for the Fairphone 2, 3, and 3+ and the smelters and refiners used in their manufacture can be found [at our website](#).

Our due diligence approach is based on the OECD's Due Diligence Guidance for Responsible Supply Chains of Minerals from Conflict-Affected and High-Risk Areas (Which we shorten to "OECD Guidance" in the remainder of this report).

It's a five-step framework for assessing risk and creating responsible supply chains.

**The ongoing process of the OECD five-step framework**



## OECD Guidance: 5 steps

### OECD Step 1:

#### **Company management system: policy, processes, and internal accountability**

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. Many of these are based on international standards from the United Nations, the OECD, and other regulatory bodies. We require suppliers to adhere to our Ways of Working through contractual obligations. We also build engagement with suppliers by embedding impact projects and capacity-building programs into our contractual arrangements with strategic suppliers.

We examine our internal policies on responsible sourcing and material due diligence. We engage with internal teams to manage, implement and track progress of their internal policies. We communicate, reinforce and generate expectations with regard to our commitment to responsible resourcing of conflict minerals and our focus materials.

Our Impact Innovation Director is accountable for material due diligence and sits on the overall management team at Fairphone. Material due diligence responsibilities are divided between several teams at Fairphone namely the 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.

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.

We distribute our Ways of Working, which outlines our code of conduct, to our suppliers at the outset of our engagement to raise awareness, generate impact, and secure improvement commitments from suppliers.

We go beyond that code by conducting research, requesting information, and conducting on-site visits to ensure our direct suppliers are complying with our ethical and sustainability requirements. We further work with direct suppliers to reach out beyond the 1st tier, conducting risk assessments with their critical suppliers. We assess all the suppliers involved in Fairphone's production. Where red flags are identified, Fairphone will collaborate directly to ensure mitigation actions are put in place.

Our Impact Innovation Team as well as our Product Team work directly with suppliers to ensure continuous dialogue and guidance.

### OECD Step 2:

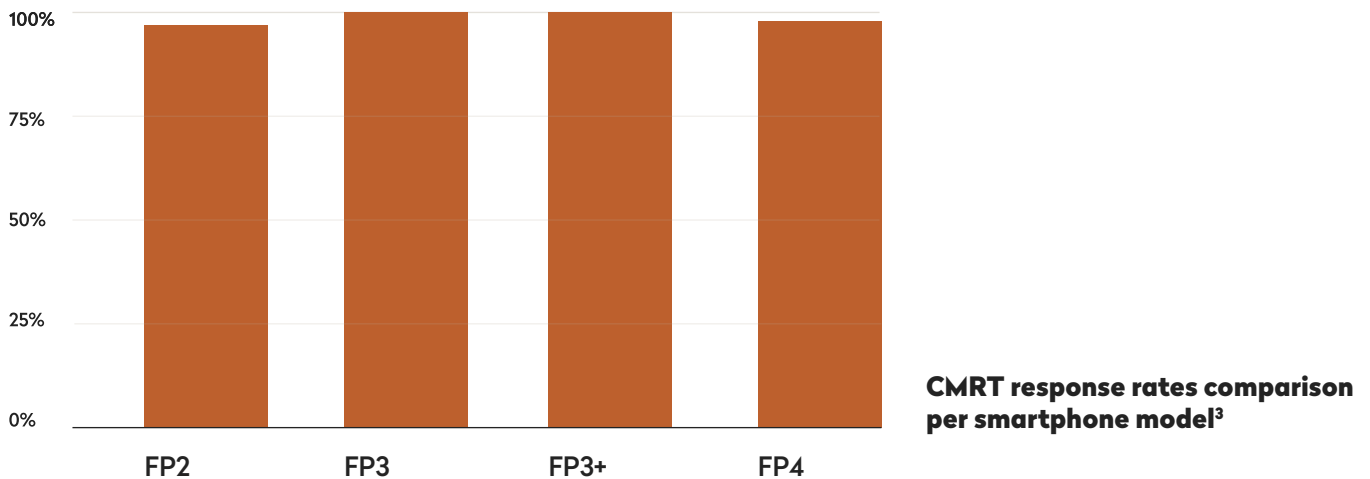
#### **Risk identification and assessment**

Fairphone continuously conducts risk identification and assessment within its supply chain.

We collect a variety of information from our suppliers, including material declarations, to understand the full materials composition of our smartphone. To identify risks related to 3TG and cobalt, we also ask suppliers to identify their smelters and refiners and to cascade a Conflict Mineral Report Template and a Cobalt Reporting Template down their supply chain for completion. We evaluate the accuracy of the information generated by these reports, and assess the compliance of the reported refiners and smelters with the Responsible Minerals Assurance Process<sup>2</sup> across a range of criteria. Fairphone also uses the RMI's Minerals Grievance Platform as a predictive tool to gather information and key insights related to risk analysis and identification.

We intend to use and implement the RMI Risk Readiness Assessment (RRA) to assess and validate the environmental, social, and governance performance of potential partners.

<sup>2</sup> RMAP recognizes and includes smelters from other lists such as the London Bullion Metal Association (LBMA) and Responsible Jewelry Council (RJC).



The Conflict Minerals Report Template for the Fairphone 3+ generated a response rate of 100%. For the Fairphone 4 the response rate for both 3TG and cobalt was 97.87%. A single supplier refused to report. In the spirit of full disclosure, we have not discontinued work with this supplier. We believe that direct engagement will ameliorate the situation and have more impact than contract termination. Fairphone will strive for 100% reporting in the next annual report.

**OECD Step 3:  
Strategy to respond to identified risks**

Fairphone uses data reported by suppliers in their Conflict Materials and Cobalt Reports and updates of the list of compliant smelters maintained by RMAP in order to monitor and identify potential risks. Fairphone identifies non-conformant smelters and refiners, engaging with them to establish their willingness to come into compliance. If there is no willingness, Fairphone's policy is to eliminate that supplier from its supply chain.

Where there is willingness, we engage with industry partners to develop improvement trajectories and create impact. Fairphone recognizes that there are conflicts, human rights and environmental issues which happen in a wide range of material supply chains and countries. We believe our primary responsibility is creating measurable impact, as opposed to managing risk.

Many suppliers report on the 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 identified risks.

If cause for concern is determined, the red flag is reported to the management team and/or brought to the attention of the appropriate industry grievance platform. In some situations, we may need to end the relationship with the supplier; in others we may develop a collaborative plan for improvement.

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.

**OECD Step 4:  
Audits of smelter due diligence practices**

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 or recognized third-party audits. Fairphone has set a target to achieve a 100% conformance rate for the smelters and refiners identified in Fairphone's conflict minerals supply chains by the end of 2023.

<sup>3</sup> From Fairphone 4 onwards, we started collecting Cobalt reporting templates (CRT) together with CMRT. Both have the same response rate.

What have we learned about smelters and refiners so far? Here is a snapshot of the most important findings. 82% of suppliers reported on a company level, or a user-defined level; the rest reported on the more informative product level. When a supplier reports on a product level, we can easily determine if that product is in the Fairphone. The data concerning the audit status of smelters and refiners was extracted from the RMI data-base in March 2022.

<b>CMRT &amp; CRT Collection</b>		
CMRT & CRT (suppliers) reported	46	97.87%
Report on company & user defined level	38	reported
Report on product (categories) level	8	reported on product or user defined
<b>Total</b>	<b>239 3TG / 25 Cobalt</b>	<b>eligible refiners</b>

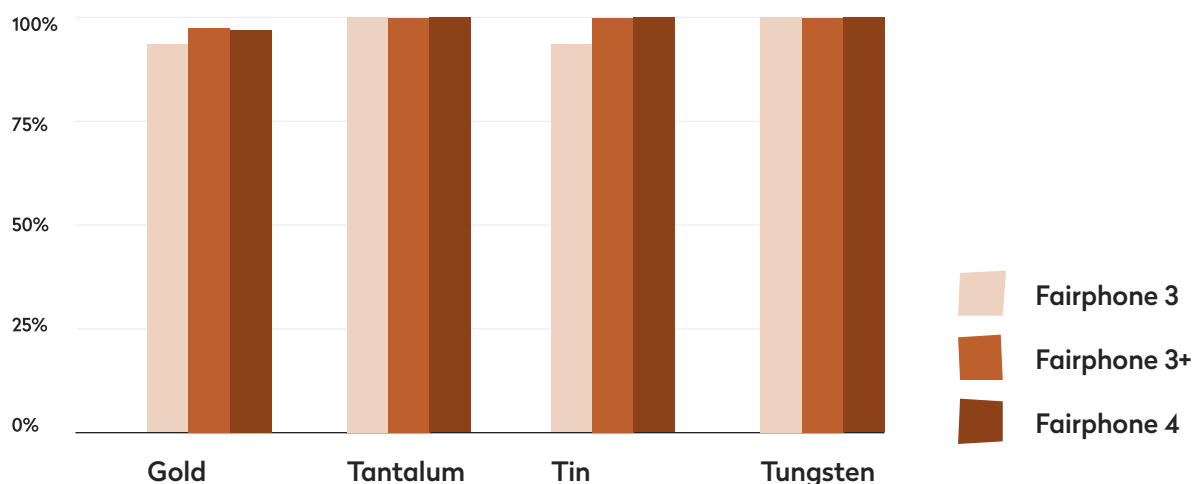
#### **Fairphone 4 smelters and refiners (3TG)**

We have identified 239 eligible smelters and refiners. They come from:

<b>Country</b>	
Asia excluding China	82
China	58
Europe	38
North America	23
South America	21
Rest of the world	17
<b>Total</b>	<b>239</b>



**3TG smelters and refiners RMAP participation**



**Third-party audit\* status for smelters and refiners of the four defined conflict minerals**

	Audit in progress	Audit passed	In communication	Audit not valid	Outreach required	Grand total
Gold	2	103	0	2	1	108
Tantalum	0	35	0	0	0	35
Tin	4	49	1	2	0	56
Tungsten	1	39	0	0	0	40
<b>Grand total</b>	<b>7</b>	<b>226</b>	<b>1</b>	<b>4</b>	<b>1</b>	<b>239</b>

Compared to Fairphone 3+, Fairphone has more smelters or refiners (SORs) currently undergoing the RMAP audit processes. To achieve the 100% conformance target, Fairphone closely monitors the status of these active SORs. For the gold and tin SORs that are not in the audit process or without a valid audit, Fairphone intends to work with its suppliers and aligns with RMI for the engagement strategy.

\* This audit checks whether smelters/refiners have the right processes in place to determine whether or not their materials come from designated high risk areas.

**Reasonable Country of Origin Inquiry Material**

Origins based on above smelters and refiners who have passed the audit:

	Gold	Tungsten	Tin	Tantalum
Smelters known to directly source from the DRC	0	2	2	11
Smelters known to directly source from the DRC's adjoining countries (but not the DRC itself) (CC)	2	6	3	10
Smelters known to directly source from CAHRAS (HR)	3	6	3	12
Smelters known to directly source from the recycled/scrap sources (R/S)	32	18	22	21
Smelters disclosed direct sources to auditors only (aggregated)	70	26	0	0
Smelters known to indirectly source from the DRC	0	1	4	19
Smelters known to indirectly source from the DRC's adjoining countries (but not the DRC itself) (CC)	0	6	4	18
Smelters known to indirectly source from CAHRAS (HR)	1	5	4	18
Smelters known to indirectly source the recycled/scrap sources (R/S)	5	9	9	22
Smelters disclosed indirect sources to auditors only (aggregated)	11	3	0	0

Source: Reasonable Country of Origin Inquiry list

Fairphone is actively engaging with suppliers to continue sourcing from the Democratic Republic of the Congo for several reasons. Mining provides an important source of livelihood for the local community, and disengagement can actually exacerbate adverse impacts, driving communities into poverty and desperation. Our engagement to date encourages our belief that we can source there conflict-free, improve practices and use our leverage to ensure the materials we source positively impact lives in the communities we source from. For more information on this see the next chapter. [see the next chapter.](#)

**Fairphone 4 smelters and refiners (cobalt)**

Moving beyond regulated 3TG, we leveraged Fairphone 4 development as an opportunity to roll out the cobalt reporting templates for the first time in our supply chain.

We have identified 25 eligible smelters and refiners. They come from:

<b>Country</b>	
Asia excluding China	3
China	15
Europe	4
North America	1
South America	0
Rest of the world	2

**Third-party audit\* status for smelters and refiners of cobalt**

	<b>Audit in progress</b>	<b>Audit passed</b>	<b>In communication</b>	<b>Outreach required</b>	<b>Unable to proceed (RM DD)</b>	<b>Grand total</b>
<b>Cobalt</b>	4	17	2	1	1	25
<b>Grand total</b>						25

As the cobalt audit landscape is still maturing, Fairphone is engaging with suppliers to ensure refiners that are not on RMI's radar or who require outreach are reported back to the industry platform. Meanwhile we are exploring with our component suppliers the possibility of ending their relationship with the one refiner who is not participating in the audit.

\* This audit checks whether smelters/refiners have the right processes in place to determine whether or not their materials come from the high risk areas.

**OECD Step 5:****Report annually on supply chain due diligence**

In keeping with step 5 of the OECD Guidance, 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 information on all our previous [due diligence reports here](#) and [impact report here](#).

**OECD Step 6:****Remediation and engagement**

Although the OECD does not provide guidance on addressing grievances within their five-step process, the OECD Due Diligence Guidance for Responsible Business Conduct does contain a further step 6 outlining provisions for remediation.

This allows companies to not only identify where there is adverse impact but to address the impact by providing or cooperating in remediation when appropriate.

As such Fairphone would like to incorporate this crucial step within the Supply Chain Report.

At this stage Fairphone has not removed any smelters or refiners from its supply chain. However, our engagement efforts will ramp up to make improvements where necessary, in particular with regard to our newly gathered information about our cobalt supply. We will continue to be guided by our impact strategy and engage more deeply in the material supply chain to drive fair sourcing not only for now-regulated materials like 3TG and cobalt, but across the full range of our focus materials. [You can read more about that in the following chapter.](#)

## Key achievements

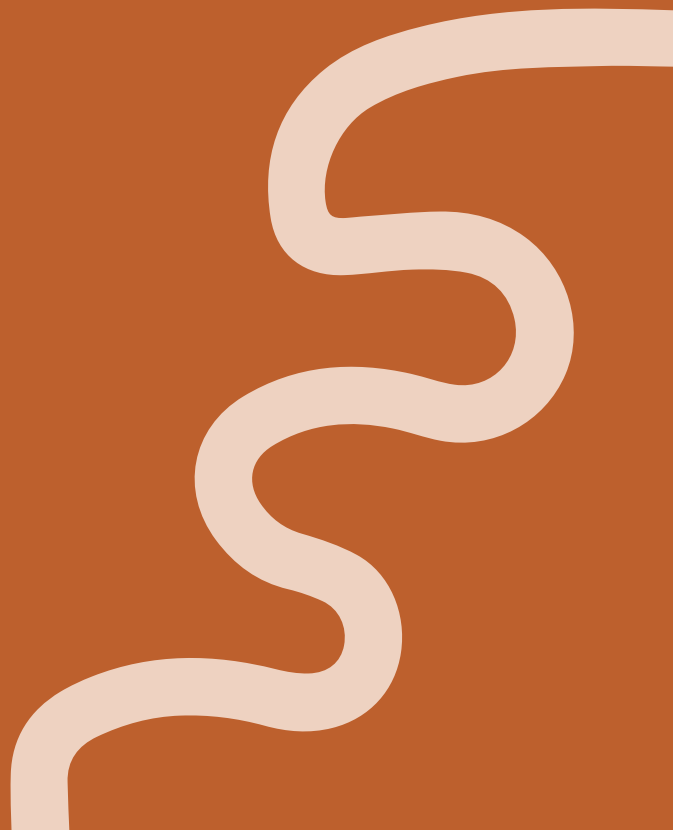
- Joined the RMI MGP
- Rolled out cobalt due diligence
- Expanded to other RMI tools, e.g. RRA
- Updated our Fairphone Ways of Working Together
- Updated our internal policy on Responsible Sourcing and Material Due Diligence

## Improvement plan

Our focus on improvement also means improving how we measure improvement, and extending the scope of what we monitor in our due diligence journey. We've identified a number of areas for attention in 2022 and specific goals to improve awareness, information, and impact.

- **Widening the scope of our review:** our due diligence process currently only extends to our phones. We are at the start of our journey to roll out a due diligence process for accessories.
- **Improve and clarify the target of cobalt:** the landscape of materials due diligence is progressing fast. Cobalt due diligence is a learning process for Fairphone as well as the industry, and remains a key improvement trajectory for the coming year — we aim to set up a clear conformance target similar to those in place for tin, tungsten, tantalum, and gold.
- **Other materials:** for Fairphone's other focus materials, we are rolling out survey tools, such as the Risk Readiness Assessment and Recycled Content Survey, to understand environmental, social, and governance risks and fair material sourcing opportunities.
- **Systemic outreach to suppliers and embedding improvement plans in contracts:** Fairphone 4 is the first model where we embed improvement targets and processes into the contracts with our manufacturing partners in addition to our Fairphone Ways of Working Together. We will continue to do so.
- **Grievance & Downstream sharing:** apart from publishing due diligence results on our website for our customers and stakeholders, we receive an increasing number of due diligence requests from our B2B partners. We will put mechanisms in place to ensure our partners receive the information needed for their due diligence obligations.

# 4 Upstream materials supply chain — engagement



## Upstream materials supply chain – engagement

### How we go beyond due diligence

Apart from ensuring that we are in compliance with existing regulations and best practice guidelines, 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 is fair, and we look beyond the regulations around tin, tantalum, tungsten, gold and cobalt at opportunities for fair and sustainable sourcing of these and 10 other focus minerals and materials that make up the Fairphone 4. That is what we set out to do.

When it comes to our strategies for these focus materials, it starts with 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. As a result of population growth and economic development around the world, global materials use is projected to more than double from 2011 to 2060. This growth is 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: in 2019, only 17.4 % of generated e-waste was 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.

### Fair mining

The mining sector does not come without problems. Both large scale mining (LSM) as well as artisanal and small-scale mining (ASM) can be tainted by 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. Conflicts with surrounding communities are also reported, due to pollution or over the use of limited resources such as land, forests and water. The ASM sector usually operates informally, characterized by low to no mechanisation, dangerous working conditions, dismal incomes, high environmental pollution and child labor. Awareness surrounding social and environmental issues, especially in the mining sector, has been increasing steadily throughout the electronics industry over the last decades. Although both LSM and ASM come with significant social and environmental challenges, they are also equipped with the ability to drive development and improve livelihoods in low and middle income countries. The mining sector is of key importance to developing economies and provides a livelihood for millions of people around the globe. The ASM sector 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 3-5 employees elsewhere in the economy.

Our approach is therefore as follows: we first identify the best practices 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 world's fastest growing waste stream. While recycling is increasing steadily around the globe, end-of-life recycling rates 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 sustainable recycling chains. 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're investing in and building scalable sourcing models for post-consumer recycled materials and improving Fairphone's recyclability by design.

The Fairphone 4 launched in 2021 with the proud statement that it is e-waste neutral, meaning that for every Fairphone 4 phone and module we sell, another phone or the same amount of e-waste is either reused or recycled through Fairphone's efforts. With the Fairphone 4 we are demonstrating that taking responsibility for future e-waste can be a selling point for a product or a company.

### Fair material target & achievements to date

Our Fair Material target is an average percentage of 70% [by weight] of the 14 focus materials that we aim to source more sustainably by 2023. In 2021 we achieved 31% of 14 focus materials for the Fairphone 4. Where possible we rerouted our supply chain to integrate these responsible sources to the manufacturer of the Fairphone 4, as well as finding sustainable sources for the additional focus materials. So far, for Fairphone 4 we have successfully integrated gold, tungsten, tin, aluminum, the rare earth metals, magnesium and plastics and are working to build responsible supply chains for all 14 focus materials.

Here is a selection of key highlights:

## Gold

We have a long term partnership with the Fairtrade Foundation, around our vision to scale responsible gold in the electronics sector. We are continuing to work with Fairtrade to explore how we can bring more of our supply chain into the Fairtrade system, so that we, and our customers can be confident that our materials are sourced sustainably, and that the gold miners we source from receive a fair price and a Fairtrade Premium for their gold. So far, we have eight China-based suppliers committed to Fairtrade and we have just onboarded a ninth – [our first Japan-based supplier, Hirose Electric Co., Ltd](#) in 2021.

Through our engagement in [Project Access](#) (Kenya & Uganda), led by The Impact Facility, we support ASM Gold mines in Eastern Africa. The project provides access to equipment, capacity development and markets. Miners qualify for this opportunity based on their performance against various environmental, social, and governance criteria, and a commitment to continuous improvement.

The project "Realizing responsible ASM Gold trade" in Tanzania is led by Solidaridad, in a consortium with Fairphone and The Impact Facility and Aunexum. It's supported by the Dutch government. The project enables access to geological data for the Tanzanian artisanal and small scale mining sector, helping them improve productivity and environmental performance, and helps facilitate access to the international gold market.

We are also a member of the [Dutch Gold Covenant](#), where Fairphone is leading the taskforce focused on bringing ASM Gold to the Dutch market.

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<sup>4</sup> Formal assurance of our 2021 result of our KPI % of focus materials sustainably sourced is to be granted and will be published in the 2022 Impact report.



**Tungsten**

Recognising the importance of mineral production in the African Great Lake Region, Fairphone, in collaboration with its supply chain partners smelter Wolfram Bergbau und Hütten AG (WBH), and trader Specialty Metal Resources, has been taking proactive steps to support conflict-free tungsten in Rwanda and connect the material produced to its Fairphone products. We are working with our partners engaging the producer in Rwanda, the New Bugarama Mining Company Ltd (NBM). NBM management practices have generated positive impacts across 5 areas:

- working conditions and health and safety;
- environment;
- education and professional development;
- local added value and socio-economic contribution; and
- community and stakeholder engagement.

The journey of NBM illustrates how artisanal and semi-mechanized operations can positively contribute to social and environmental impacts and ultimately, to ensure sustainable development.

[Read more here.](#)

**Aluminum**

In 2021 Fairphone joined the Aluminium Stewardship Initiative (ASI) as a downstream supporter. ASI's mission is to recognize and collaboratively foster the responsible production, sourcing and stewardship of aluminium. It is a global standard-setting and certification organization, supported by a broad range of stakeholders. We source from an ASI Performance Certified Vendor for our Fairphone 4.

**Cobalt**

Fairphone is one of the co-founders of the Fair Cobalt Alliance. At Fairphone, we believe in putting people and planet first and the [Fair Cobalt Alliance](#) is an important part of our vision. With the energy transition rapidly progressing, the demand for batteries will explode in the coming years.

It's crucial that the practices around cobalt mining are improved to ensure that the materials used in the future are more sustainable and ethically sourced to protect both the environment and local workers. By setting up this initiative, we are showing the entire industry that a fairer battery is possible. As a multi-stakeholder action platform, the Fair Cobalt Alliance offers actors across the cobalt supply chain a pre-competitive environment for collaboration to help strengthen and professionalize DRC's artisanal cobalt mining sector and contribute to local economic development. Through our engagement with the FCA, we continue to work towards integrating Fair ASM cobalt in our battery supply chain.

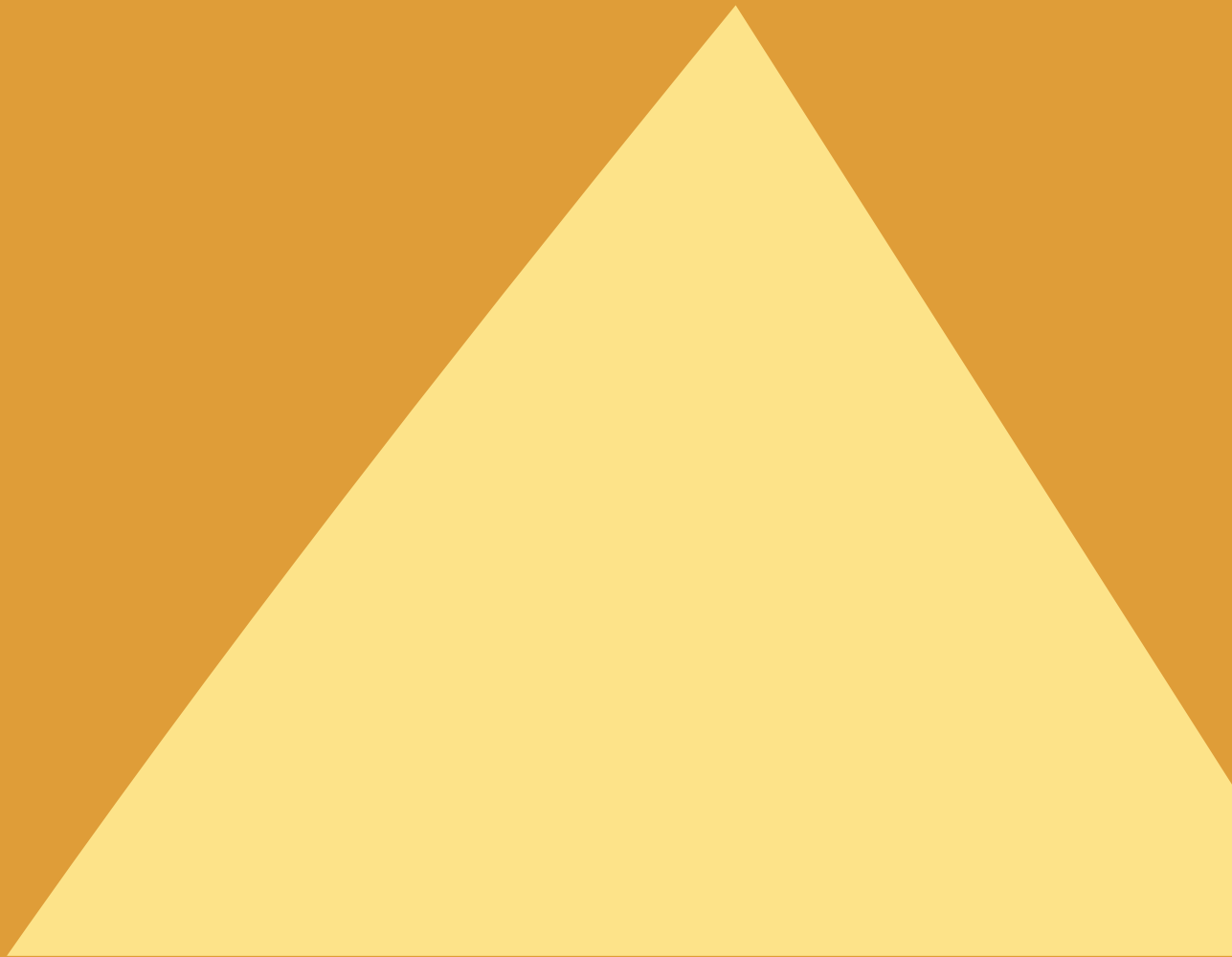
**Lithium**

Fairphone is a member of the [Responsible Lithium Partnership](#). The partnership encourages responsible management of natural resources, including lithium, in Chile's Salar de Atacama. The objective is to find common ground by building a multi-stakeholder platform among all relevant actors in the Salar watershed, ranging from civil society groups including indigenous communities, government institutions, mining companies and beyond. The platform aims to facilitate a common understanding of the status quo and jointly develop a shared vision for the future of the Salar de Atacama watershed.

**Furthermore, for Fairphone 4, we:**

- Use 100% recycled tin in our solder paste
- Integrate (postconsumer) recycled rare earth metals in our speaker and vibration motor
- Mapped recycled magnesium in our LCD supply chain
- Use post-consumer recycled plastics in the phone's core modules and back cover
- Mapped recycled content of copper, nickel and zinc in our supply chain
- Continue to engage our suppliers, identifying and connecting to responsible silver & indium sources

# 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 practises, 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.

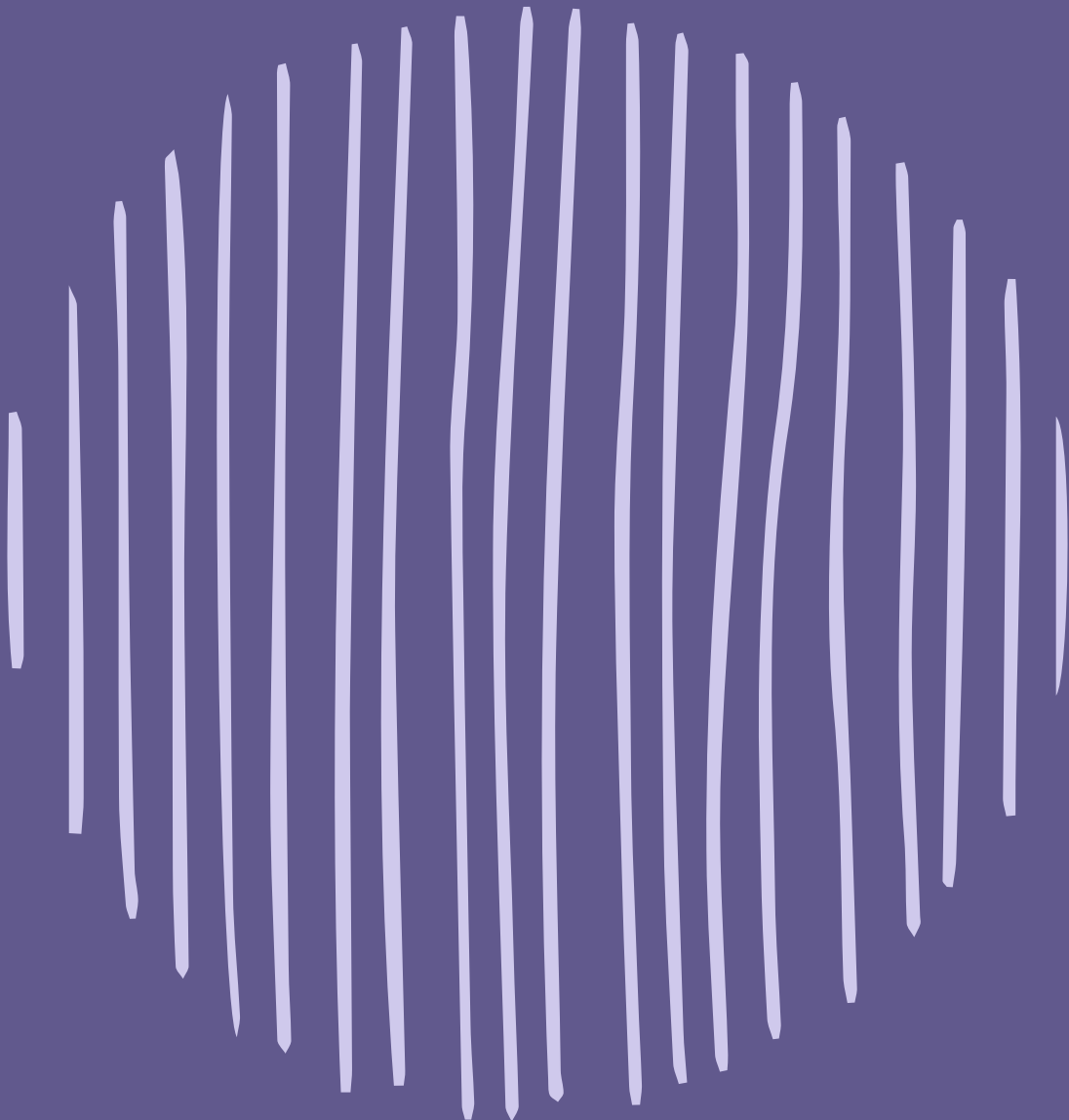
**Clean Electronics Production Network (CEPN):** CEPN is a multi-stakeholder initiative with the goal to ensure workers are not exposed to hazardous chemicals. It's a leading initiative on safe use of processing chemicals of which Fairphone has been a member since 2017. Fairphone participates in the working group on worker engagement.

**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 actively participating in the different working groups of the EPRM, sharing our experiences of due diligence and learning from others and participating in two EPRM-supported gold projects (see section Engagement).

**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 the ASM Working Group, as one of the co-chairs and the Cobalt Working Group.

**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 here 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. 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. Through active outreach and engagement we are working with our battery supplier to integrate lithium from IRMA-assessed mines into our battery supply chain.

# 6 Conclusion



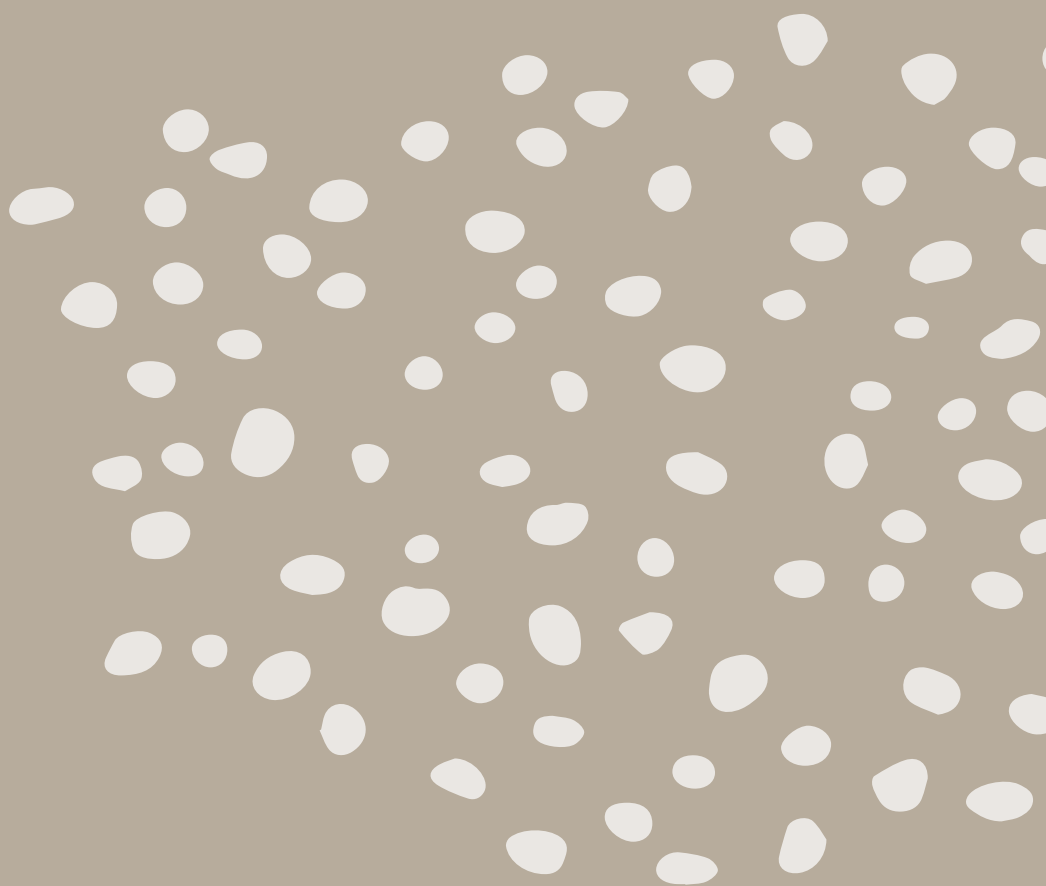
## Join our Journey

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. But 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.

But 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.

# 6 Annexes



## Annex 1: List of suppliers for the Fairphone 4

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 Fairphone 4 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. The first version of the Fairphone 4 supplier list presents all the first-tier and second-tier suppliers, as well as the third tier suppliers that we are directly engaged with.

**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.

**Please note:** This list reflects the suppliers currently providing components or materials for the Fairphone 4. 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.

**Phone Assembly – Fairphone 4**

Tier	Supplier	Address: Manufacturer	Website
1	Huizhou TCL Mobile Communication Co., Ltd.	Manufacturer: No.86, Hechang 7th West Road, Zhongkai Hi-tech Development District, Huizhou, Guangdong, China	<a href="http://www.tclcomm.com">www.tclcomm.com</a>



**Semiconductors - Integrated Circuits, Discretes, LEDs**

Tier	Supplier	Address: Manufacturer or Headquarters	Website
2	Shanghai Weier Semiconductor Co., Ltd.	Headquarters: 2F, No.88, ShangKe Road, Pudong District, Shanghai 201210, China	www.omnivision-group.com/#!/home
2	JCET Group Co., Ltd.	Manufacturer: 275 Middle Binjiang Road, Jiangyin, Jiangsu, China	www.vanchip.com
2	Taiwan Semiconductor Manufacturing (TSMC)	Manufacturer: 9, Ctreation Road, Hsinchu Science Park, Hsinchu, 30077, Taiwan	www.pixelworks.com
2	Unisem	Manufacturer: No. 8-2 Kexin Road, High-Tech West Zone, Chengdu, Sichuan, China	www.sg-micro.com
2	Samsung Electronics	Manufacturer: 1, Samsung jeonja-ro, hwaseong-si, Gyeonggi-do 445-330, Korea	www.samsung.com
2	Suzhou ASEN Semiconductors Co., Ltd.	Manufacturer: 188 Suhong Middle Road, Suzhou, Jiangsu, China	www.maxscend.com
2	Moda-Innochips	Manufacturer: 42-7, Dongsan-Ro 27 Beon-Gil Wonsi-dong Danwon-Gu, Korea	www.innochips.co.kr/en/
2	RF360	Manufacturer: 166 Kallang Way, Singapore	www.qualcomm.com
2	Qualcomm Technologies, Inc	Headquarters: 5775 Morehouse Dr. San Diego CA 92121, United States	www.qualcomm.com
2	Tianjin Samsung Electro-Mechanics co., Ltd.	Manufacturer: No.80 Xiaqing road, Western Area of Economic-Technological Development Area, Tianjin, China	www.product.samsungsem.com/index.do
2	Taiwan Semiconductor Manufacturing Co. LTD	Headquarters: 8, Li-Hsin Rd. 6, Hsinchu Science Park, Hsinchu 300-78, Taiwan, R.O.C.	www.tsmc.com
2	TSMC (China) Co. LTD	Headquarters: 4000 Wen Xiang Road, Songjiang, Shanghai, China	www.tsmc.com
2	Shanghai Huahong Hongli Semiconductor Manufacturing Co., LTD	Manufacturer: China (Shanghai) Pilot Free Trade Zone, Pudong, Shanghai, China	www.huahonggrace.com
2	Tripod	Manufacturer: Wuxi, Jiangsu, China	www.tripod-tech.com
2	Glofonde Semiconductor Co., LTD	Headquarters: 15 / F, Block B, China Railway Nord International Center, 908 Xiuwen Road, Minhang District, Shanghai, China	www.awinic.com
2	KYOCERA	Headquarters: 9F, City Headquarters Building, 168 Xizang Middle Road, Huangpu District, Shanghai, China	www.kyocera.com
2	NXP	Headquarters: Shanghai, China	www.nxp.com
2	NEXPERIA	Manufacturer: Guangdong, China	www.nexperia.com
2	ST	Manufacturer: Jiangyin, Jiangsu, China	www.st.com
2	UNIOHM	Manufacturer: Kunshan, Jiangsu, China	www.uniohm.com.tw

**Passives**

Tier	Supplier	Address: Manufacturer	Website
2	Tianjin Samsung Electro-Mechanics co.,Ltd.	Manufacturer: NO.80 Xiaqing Road, Western Area of Economic-Technological Development Area, Tianjin, China	www.product.samsungsem.com/index.do
2	Shenzhen Sunlord Electronics Co., Ltd.	Manufacturer: Sunlord Industrial Park, Dafuyuan, Guanlan Town, Longhua District, Shenzhen, Guangdong, China	www.sunlordinc.com
2	Shenzhen Microgate Technology CO.,LTD	Manufacturer: Building, No.5, Longtian Science Park, 6075 Pingshan Road, Shenzhen, Guangdong, China	www.szmicrogate.com
2	Eyang Technology Development CO.,LTD.	Manufacturer: EYANG High-Tech Garden, YongSheng Road, FengGangTown, DongGuan, GuangDong, China	www.szeyang.com
2	BeiJing Yandong Microelectronic Co.,Ltd	Manufacturer: No.2 Wanhong West Street, Xibajianfang, DongZhiMenWai, ChaoYang District, BeiJing, China	www.prisemi.com
2	TFMF	Manufacturer: 288 Chongchuan Road, Nantong, Jiangsu, China	www.prisemi.com
2	Murata Manufacturing Co., Ltd.	Manufacturer: No.6, Xingchuang Road 1, Zone B, Wuxi Export Processing Zone, Wuxi, Jiangsu, China	www.corporate.murata.com
2	Guangdong Fenghua Advanced Technology Holding CO.,LTD	Manufacturer: No.19, Fenghua Road, Zhaoqing, Guangdong, China	www.china-fenghua.com
2	PT.KDS INDONESIA	Manufacturer: Blok O-20, O-21 Kawasan Berikat MM2100 Industrial Town Cikarang Barat, Bekasi 17520 Jawa Barat, Indonesia	www.kds.info
2	Viiyong Hi-Tech	Manufacturer: No.1, Chuangye 2nd Road, Shuangdong Sub-district, Luoding, Guangdong, China	www.viiyong.com
2	Ouchi Factory	Manufacturer: 146-1, Haraigawa, Ouchisankawa, Yurihonjo-Shi, Akita 018-0731, Japan	www.tdk.com/en/worldwide/index.html
2	Taiyo Yuden (Guangdong) CO., LTD.	Manufacturer: No.13 Keji Dong Road, Shi Jie Town, Dongguan, Guangdong, China	www.yuden.co.jp/cs/
2	WAKAYAMA TAIYO YUDEN CO., LTD.	Manufacturer: 4026-22, Inanbara, Inami-cho, Hidaka-gun, Wakayama 649-1532, Japan	www.yuden.co.jp/cs/
2	Walsin Technology Corp	Manufacturer: 7F, No. 28, North 1st Road, K.E.P.Z Kaohsiung, 80681, Taiwan	www.passivecomponent.com
2	Tianjin WISOL Electronics Co.,Ltd	Manufacturer: D1-1/3,D2-2 International Industrial City XEDA, Tianjin, China	www.wisol.co.kr/

**Electromechanical, MEMS**

Tier	Supplier	Address: Manufacturer	Website
2	OBO Pro.2 Inc.	Manufacturer: No.15, Dianchang Road, Bixi Dist, Changshu, Jiangsu, China	www.obopro2.com
3	AAC Technology (Nanning) Co., Ltd.	Manufacturer: Shenguan collagen think tank 3# factory, 9# factory, 13# factory, No.13, Guokai Avenue East, Jiangnan District, Nanning, China	www.aactechnologies.com
2	Taiwan Semiconductor Manufacturing (TSMC)	Manufacturer: 9, Ccreation Rd. 1, Hsinchu Science Park, Hsinchu, 30077, Taiwan	www.akm.com
2	Baolong Electronic Group Co.,Ltd.	Manufacturer: No.388, Ningkang East Road, Wenzhou, Zhejiang, China	www.vibrationmotors.com
3	Tianjia	Manufacturer: 171 Yu Yin Road, YaoBei village, Hong Qiao, Yue Qing, ZheJiang, China	www.cntjdz.net
2	Shunqi Electronic Technology Co., Ltd.	Manufacturer: 2nd floor, building 127, Shifeng Science and Technology Park, Mashantou seventh industrial zone, Guangming New District, Shenzhen, Guangdong, China	No Official Website
2	SENSORTEK	Headquarters: 11F, No. 6, Taiyuan 2nd St. Zhubei City Hsinchu County, 302, Taiwan	www.sensortek.com.tw

**Connectors, Clips, Spring Contacts, Cables**

<b>Tier</b>	<b>Supplier</b>	<b>Address: Manufacturer</b>	<b>Website</b>
2	HIROSE ELECTRIC CO LTD	Manufacturer: No. 87, Ōkawara, Kōriyama, Fukushima, Japan	www.hirose.com
2	HIROSE KOREA CO LTD	Manufacturer: No.143, Gongdan1daero, Si-heung-si, Gyeonggi-do, Korea	www.hirose.com
2	Yuliang	Manufacturer: Shabu Second Industrial Zone, Dalang Town, Dongguan, Guangdong, China	No Official Website
2	ECT	Headquarters: Guangming District, Shenzhen, Guangdong, China	www.ectsz.com
2	HRS	Headquarters: High-tech Park, Nanshan District, Shenzhen, Guangdong, China	No Official Website
2	KEIRAKU	Manufacturer: 1999 Hanpu Road, Kunshan, Jiangsu, China	www.keiraku.com.cn

## Display, Touch Screen

Tier	Supplier	Address: Manufacturer or Headquarters	Website
2	DJN	Manufacturer: Baotang Road, Pengjiang District, Jiangmen, Guangdong, China	www.djnlcd.com
3	Corning	Headquarters: One Riverfront Plaza Corning, New York 14831, USA	www.corning.com/

## Cameras

Tier	Supplier	Address: Manufacturer	Website
2	Triple Win Technology (Jin Cheng) Co.Ltd	Manufacturer: No.1216 Lanhua Road Economic&Technology, JinCheng, ShanXi, China	www.foxconn.com

## Flexible Printed Circuits

Tier	Supplier	Address: Manufacturer	Website
2	Hong Neng	Manufacturer: ChuangYe road, Baoan district, Shenzhen, Guangdong, China	No Official Website

## Soldering Paste

Tier	Supplier	Address: Headquarters	Website
2	MacDermid Alpha Electronics Solutions	Headquarters: 245 Freight Street Waterbury, CT 06702, United States	www.macdermidalpha.com

## Battery

Tier	Supplier	Address: Manufacturer	Website
2	KAYO BATTERY CO.,LTD	Manufacturer: ShaJingTou ten Lane, Matigang Village, DaLingShan Town ,DongGuan, Guangdong, China	www.kayobattery.com
2	ICT	Manufacturer: 42-7, Dongsan-ro 27beon-gil, Danwon-gu, Ansan-si, Gyeonggi-do, Korea	www.innochips.co.kr
3	Amperex Technology	Manufacturer: 1 West Industrial Road, Songshan Lake Dongguan, Guangdong, China	www.atlbattery.com

**Plastics**

<b>Tier</b>	<b>Supplier</b>	<b>Address: Manufacturer or Headquarters</b>	<b>Website</b>
2	Celanese(Nanjing)Chemical Co.,Ltd.	Manufacturer: No. 66, Fangshui West Road, Jiangbei new material science and Technology Park, Nanjing, Jiangsu, China	www.celanese.com.cn
2	Allfine Optics Technology	Manufacturer: Building#3,1552# road,Gangxia, Chang An town,Dongguan, Guangdong, China	www.allfine.com.cn
2	Mikolta	Manufacturer: 18 Bihu Road, Songbailang Industrial Zone, Dalang, Dongguan, Guangdong, China	www.mikolta.com
2	Bao li Jia Plastic (SZ)Co.,Ltd	Manufacturer: A-28 Block, Fu Chengao Industrial, PingHu Community, LongGang District, Shenzhen, Guangdong, China	No Official Website
2	Worldhom	Manufacturer: Dongguan, Guangdong, China	No Official Website
3	Sabic	Headquarters: PO Box 5101, Riyadh 11422, Saudi Arabia	www.sabic.com
3	Covestro	Headquarters: Leverkusen Kaiser-Wilhelm-Allee 60 51373 Leverkusen, Germany	www.covestro.com
3	Mocom	Headquarters: Mühlenhagen 35, DE - 20539 Hamburg, Germany	www.mocom.com

**Shields, Metal Parts, Screws**

Tier	Supplier	Address: Manufacturer or Headquarters	Website
2	Xiangjian Precision Industry(SZ co.,ltd	Manufacturer: Building 42, Datian Yangxi-fang Industrial Zone, Dongfang community, Songgang street, Bao'an District, Shenzhen, Guangdong, China	www.szxjj.net
2	Kechuang copper co.,Ltd	Manufacturer: 3/F, building No.109, Shigu Industrial Avenue, Tangxia, Dongguan, Guangdong, China	www.dgkcty.com
2	Yongjin Metal Technology Co.,Ltd	Manufacturer: 99 Chuangye Avenue, Lanxi Economic Development Zone, Zhejiang, China	www.yjjskj.com
2	Dongguan Chengguang Metal Products Co.,Ltd	Manufacturer: Xin Tang Industrial Park, Houjie Town, Dongguan, Guangdong, China	www.tw.manufacturers.tw
2	JITS Communication CO., Ltd	Manufacturer: Building 7, No.391, Shatian section, Gangkou Avenue, Shatian Town, Dongguan, Guangdong, China	www.jitstech.com
2	Shenzhen xinkexin Industrial Material Co., Ltd	Manufacturer: Room 1009, No.34, Shangzao village, Gaofeng Community, Dalang street, Bao'an District, Shenzhen, Guangdong, China	No Official Website
2	Dongguan Qiaofu Hardware Accessories Co., Ltd	Manufacturer: 101, building 1, No. 8, 2nd Lane, Shatian Environmental Protection Middle Road, Shatian Town, Dongguan, Guangdong, China	www.qiaofuwujin.com
2	Shenzhen Fengxiang Precision Metal Co., Ltd	Manufacturer: 101, building 19, No.156, Yanluo Road, Yanchuan Community, Yanluo street, Bao'an District, Shenzhen, Guangdong, China	www.fengxiangjm.com
2	Linkconn	Manufacturer: Shenzhen, Guangdong, China	www.linkconn.com
2	Gongchuang	Manufacturer: Suzhou , Jiangsu, China	No Official Website
2	QORVO	Manufacturer: Zhongshan, Guangdong, China	www.qorvo.com
3	Kam Kiu Aluminum Extrusion Co., Ltd	Manufacturer: Dajiang County, Taishan City, Guangdong, China	www.kamkiu.com

**Packaging , Labels, Adhesive**

Tier	Supplier	Address: Manufacturer	Website
2	Guangdong Jiaya Enterprise Co., Ltd	Manufacturer: 3rd Road No.26, Zhongkai High-tech Zone, Huizhou, Guangdong 516006, China	www.jiaya.com
2	Huizhou Hairunxin New Material Technology CO.,LTD	Manufacturer: Workshop No.1, Huifeng East Road 1, Community No.53, Huitai Industrial Park, Huicheng District, Huizhou, Guangdong, China	No Official Website
2	Guangzhou Huitian New Material Co.,Ltd	Manufacturer: No.6 Qibei Road, Huagang Avenue, XinHua Town, Guangdong, China	www.huitian.net.cn
2	NYSTEIN	Manufacturer: Nystein Building, Yizhong Industry Park, Jinshadun, Dalang Town, Dongguan, Guangdong, China	www.nystein.com
2	Huizhou Haopin Technology Co., LTD	Manufacturer: Floor 3, Building A, Linhai Industrial Park, Shuikou Avenue, Huicheng District, Huizhou, Guangdong, China	www.haopin168.com
2	New Litop	Manufacturer: A46 Floor, Fuchengao Area ,Pinghu Street, Longgang, Shenzhen, Guangdong, China	www.Litop88.com
2	Hui Zhou Dongoing Sheng Paper Co.,Ltd	Manufacturer: Building 6, Hujing Industrial Zone, Huicheng District, Huizhou, Guangdong, China	No Official Website
2	Guangdong Ideal Color Printing CO.,LTD	Manufacturer: Longling Industrial, Heyuan, Guangdong, China	www.ideal.gd.cn
2	Dongguan City Chuangyi Paper Co., Ltd.	Manufacturer: Room 905, No. 25, Shangyang Road, Chang'an Town, Dongguan, Guangdong, China	No Official Website
2	ShenZhen Guoxin Trade Co., Ltd.	Manufacturer: Room 605, Building 425, Bagua 4th Road, Futian District, Shenzhen, Guangdong, China	No Official Website
2	Shenzhen Hatcher Supply Chain Co., Ltd.	Manufacturer: Room 1302, B Unit of ABCD, No. 3 Building, Phase 1, Tian An Cloud Park, Gangtou Community, Bantian Sub-district, Longgang District,Shenzhen, Guangdong, China	www.centuryhope.com
2	Hengwei	Manufacturer: Huizhou, Guangdong, China	No official website



## Annex 2: List of smelters and refiners for Fairphone 4

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.

Here are a few explanations that will help you better understand our list of smelters and refiners (SORs):

**Responsible Minerals Initiative (RMI):** The Responsible Minerals Initiative is the industry association which runs the Responsible Minerals Assurance Process auditing program, while cross-recognizing a variety of other auditing programs.

**Audit-passed smelters or refiners:** SORs that are verified to be in compliance with RMI standards or one of the cross-recognized certification programs.

**Audit-in-progress smelters or refiners:** SORs that have committed to undergoing an RMI audit or one of the cross recognized certification audits and are in the participating phase.

**Audit-not-valid smelters or refiners:** SORs that are communicating with RMI, have failed to proceed with the certification process, have been audited but found not conformant, or still require further outreach to join certification program(s).

# Gold

Smelter ID	Standard Smelter Name	Country Location	RMAP Conformant
CID001147	Metalor Technologies (Suzhou) Ltd.	CHINA	Conformant
CID001622	Shandong Zhaojin Gold & Silver Refinery Co., Ltd.	CHINA	Conformant
CID002030	Western Australian Mint (T/a The Perth Mint)	AUSTRALIA	Conformant
CID001149	Metalor Technologies (Hong Kong) Ltd.	CHINA	Conformant
CID000077	Argor-Heraeus S.A.	SWITZERLAND	Conformant
CID001153	Metalor Technologies S.A.	SWITZERLAND	Conformant
CID000082	Asahi Pretec Corp.	JAPAN	Conformant
CID000807	Ishifuku Metal Industry Co., Ltd.	JAPAN	Conformant
CID000937	JX Nippon Mining & Metals Co., Ltd.	JAPAN	Conformant
CID001119	Matsuda Sangyo Co., Ltd.	JAPAN	Conformant
CID001193	Mitsui Mining and Smelting Co., Ltd.	JAPAN	Conformant
CID001259	Nihon Material Co., Ltd.	JAPAN	Conformant
CID001875	Tanaka Kikinzoku Kogyo K.K.	JAPAN	Conformant
CID001938	Tokuriki Honten Co., Ltd.	JAPAN	Conformant
CID002129	Yokohama Metal Co., Ltd.	JAPAN	Conformant
CID001078	LS-NIKKO Copper Inc.	KOREA, REPUBLIC OF	Conformant
CID001916	Shandong Gold Smelting Co., Ltd.	CHINA	Conformant
CID001152	Metalor Technologies (Singapore) Pte., Ltd.	SINGAPORE	Conformant
CID000090	Asaka Riken Co., Ltd.	JAPAN	Conformant
CID000019	Aida Chemical Industries Co., Ltd.	JAPAN	Conformant
CID001325	Ohura Precious Metal Industry Co., Ltd.	JAPAN	Conformant
CID000401	Dowa	JAPAN	Conformant
CID000981	Kojima Chemicals Co., Ltd.	JAPAN	Conformant
CID000924	Asahi Refining Canada Ltd.	CANADA	Conformant
CID000920	Asahi Refining USA Inc.	UNITED STATES OF AMERICA	Conformant
CID002003	Valcambi S.A.	SWITZERLAND	Conformant
CID000707	Heraeus Metals Hong Kong Ltd.	CHINA	Conformant
CID001113	Materion	UNITED STATES OF AMERICA	Conformant

CID001157	Metalor USA Refining Corporation	UNITED STATES OF AMERICA	Conformant
CID000035	Allgemeine Gold-und Silberscheideanstalt A.G.	GERMANY	Conformant
CID000058	AngloGold Ashanti Corrego do Sitio Mineracao	BRAZIL	Conformant
CID000113	Aurubis AG	GERMANY	Conformant
CID000157	Boliden AB	SWEDEN	Conformant
CID000176	C. Hafner GmbH + Co. KG	GERMANY	Conformant
CID000185	CCR Refinery - Glencore Canada Corporation	CANADA	Conformant
CID000233	Chimet S.p.A.	ITALY	Conformant
CID002243	Gold Refinery of Zijin Mining Group Co., Ltd.	CHINA	Conformant
CID000694	Heimerle + Meule GmbH	GERMANY	Conformant
CID000801	Inner Mongolia Qiankun Gold and Silver Refinery Share Co., Ltd.	CHINA	Conformant
CID000814	Istanbul Gold Refinery	TURKEY	Conformant
CID000855	Jiangxi Copper Co., Ltd.	CHINA	Conformant
CID000969	Kennecott Utah Copper LLC	UNITED STATES OF AMERICA	Conformant
CID001161	Metalurgica Met-Mex Penoles S.A. De C.V.	MEXICO	Conformant
CID001352	PAMP S.A.	SWITZERLAND	Conformant
CID001534	Royal Canadian Mint	CANADA	Conformant
CID002777	SAXONIA Edelmetalle GmbH	GERMANY	Conformant
CID001585	SEMPSA Joyeria Plateria S.A.	SPAIN	Conformant
CID001736	Sichuan Tianze Precious Metals Co., Ltd.	CHINA	Conformant
CID001761	Solar Applied Materials Technology Corp.	TAIWAN, PROVINCE OF CHINA	Conformant
CID001980	Umicore S.A. Business Unit Precious Metals Refining	BELGIUM	Conformant
CID001993	United Precious Metal Refining, Inc.	UNITED STATES OF AMERICA	Conformant
CID002224	Zhongyuan Gold Smelter of Zhongjin Gold Corporation	CHINA	Conformant
CID001512	Rand Refinery (Pty) Ltd.	SOUTH AFRICA	Conformant
CID000015	Advanced Chemical Company	UNITED STATES OF AMERICA	Conformant
CID000041	Almalyk Mining and Metallurgical Complex (AMMC)	UZBEKISTAN	Conformant
CID000128	Bangko Sentral ng Pilipinas (Central Bank of the Philippines)	PHILIPPINES	Conformant
CID000189	Cendres + Metaux S.A.	SWITZERLAND	Conformant
CID000264	Chugai Mining	JAPAN	Conformant

CID000359	DSC (Do Sung Corporation)	KOREA, REPUBLIC OF	Conformant
CID000362	DODUCO Contacts and Refining GmbH	GERMANY	Conformant
CID000425	Eco-System Recycling Co., Ltd. East Plant	JAPAN	Conformant
CID000493	JSC Novosibirsk Refinery	RUSSIAN FEDERATION	Conformant
CID000689	LT Metal Ltd.	KOREA, REPUBLIC OF	Conformant
CID000823	Japan Mint	JAPAN	Conformant
CID000929	JSC Uralelectromed	RUSSIAN FEDERATION	Conformant
CID000957	Kazinc	KAZAKHSTAN	Conformant
CID001204	Moscow Special Alloys Processing Plant	RUSSIAN FEDERATION	Conformant
CID001220	Nadir Metal Rafineri San. Ve Tic. A.S.	TURKEY	Conformant
CID001236	Navoi Mining and Metallurgical Combinat	UZBEKISTAN	Conformant
CID001326	OJSC "The Gulidov Krasnoyarsk Non-Ferrous Metals Plant" (OJSC Krastsvetmet)	RUSSIAN FEDERATION	Conformant
CID001386	Prioksky Plant of Non-Ferrous Metals	RUSSIAN FEDERATION	Conformant
CID001397	PT Aneka Tambang (Persero) Tbk	INDONESIA	Conformant
CID001498	PX Precinox S.A.	SWITZERLAND	Conformant
CID001555	Samduck Precious Metals	KOREA, REPUBLIC OF	Conformant
CID001756	SOE Shyolkovsky Factory of Secondary Precious Metals	RUSSIAN FEDERATION	Conformant
CID001955	Torecom	KOREA, REPUBLIC OF	Conformant
CID002100	Yamakin Co., Ltd.	JAPAN	Conformant
CID002290	SAFINA A.S.	CZECHIA	Conformant
CID002314	Umicore Precious Metals Thailand	THAILAND	Conformant
CID002459	Geib Refining Corporation	UNITED STATES OF AMERICA	Conformant
CID002509	MMTC-PAMP India Pvt., Ltd.	INDIA	Conformant
CID002511	KGHM Polska Miedz Spolka Akcyjna	POLAND	Conformant
CID002516	Singway Technology Co., Ltd.	TAIWAN, PROVINCE OF CHINA	Conformant
CID002560	Al Etihad Gold Refinery DMCC	UNITED ARAB EMIRATES	Conformant
CID002561	Emirates Gold DMCC	UNITED ARAB EMIRATES	Conformant
CID002580	T.C.A S.p.A	ITALY	Conformant
CID002582	REMONDIS PMR B.V.	NETHERLANDS	Conformant
CID002605	Korea Zinc Co., Ltd.	KOREA, REPUBLIC OF	Conformant

CID002606	Marsam Metals	BRAZIL	Conformant
CID002615	TOO Tau-Ken-Altyn	KAZAKHSTAN	Conformant
CID002761	SAAMP	FRANCE	Conformant
CID002762	L'Orfebvre S.A.	ANDORRA	Conformant
CID002763	8853 S.p.A.	ITALY	Conformant
CID002765	Italpreziosi	ITALY	Conformant
CID002778	WIELAND Edelmetalle GmbH	GERMANY	Conformant
CID002779	Ogussa Osterreichische Gold- und Silber-Scheideanstalt GmbH	AUSTRIA	Conformant
CID002863	Bangalore Refinery	INDIA	Conformant
CID002918	SungEel HiMetal Co., Ltd.	KOREA, REPUBLIC OF	Conformant
CID002919	Planta Recuperadora de Metales SpA	CHILE	Conformant
CID002973	Safimet S.p.A	ITALY	Conformant
CID003424	Eco-System Recycling Co., Ltd. North Plant	JAPAN	Conformant
CID003425	Eco-System Recycling Co., Ltd. West Plant	JAPAN	Conformant
CID000711	Heraeus Germany GmbH Co. KG	GERMANY	Conformant
CID003421	C.I Metales Procesados Industriales SAS	COLOMBIA	Audit in progress
CID002852	GCC Gujrat Gold Centre Pvt. Ltd.	INDIA	Audit in progress
CID001029	Kyrgyzaltyn JSC	KYRGYZSTAN	No valid audit
CID002850	AU Traders and Refiners	SOUTH AFRICA	No valid audit
CID001947	Tongling Nonferrous Metals Group Co., Ltd.	CHINA	No valid audit

# Tin

Smelter ID	Standard Smelter Name	Country Location	RMAP Conformant
CID003325	Tin Technology & Refining	UNITED STATES OF AMERICA	Conformant
CID003116	Guangdong Hanhe Non-Ferrous Metal Co., Ltd.	CHINA	Conformant
CID002773	Metallo Belgium N.V.	BELGIUM	Conformant
CID002036	White Solder Metalurgia e Mineracao Ltda.	BRAZIL	Conformant
CID001898	Thaisarco	THAILAND	Conformant
CID001482	PT Timah Tbk Mentok	INDONESIA	Conformant
CID001477	PT Timah Tbk Kundur	INDONESIA	Conformant
CID001337	Operaciones Metalurgicas S.A.	BOLIVIA (PLURINATIONAL STATE OF)	Conformant
CID001191	Mitsubishi Materials Corporation	JAPAN	Conformant
CID001105	Malaysia Smelting Corporation (MSC)	MALAYSIA	Conformant
CID001173	Mineracao Taboca S.A.	BRAZIL	Conformant
CID001182	Minsur	PERU	Conformant
CID002158	Yunnan Chengfeng Non-ferrous Metals Co., Ltd.	CHINA	Conformant
CID000292	Alpha	UNITED STATES OF AMERICA	Conformant
CID001070	China Tin Group Co., Ltd.	CHINA	Conformant
CID000468	Fenix Metals	POLAND	Conformant
CID000942	Gejiu Kai Meng Industry and Trade LLC	CHINA	Conformant
CID001231	Jiangxi New Nanshan Technology Ltd.	CHINA	Conformant
CID001142	Metallic Resources, Inc.	UNITED STATES OF AMERICA	Conformant
CID001453	PT Mitra Stania Prima	INDONESIA	Conformant
CID001460	PT Refined Bangka Tin	INDONESIA	Conformant
CID001539	Rui Da Hung	TAIWAN, PROVINCE OF CHINA	Conformant
CID002180	Yunnan Tin Company Limited	CHINA	Audit in progress
CID000402	Dowa	JAPAN	Conformant
CID002517	O.M. Manufacturing Philippines, Inc.	PHILIPPINES	Conformant
CID002834	Thai Nguyen Mining and Metallurgy Co., Ltd.	VIET NAM	Conformant
CID001468	PT Stanindo Inti Perkasa	INDONESIA	Conformant
CID000538	Gejiu Non-Ferrous Metal Processing Co., Ltd.	CHINA	Conformant

CID000228	Chenzhou Yunxiang Mining and Metallurgy Co., Ltd.	CHINA	Conformant
CID003190	Chifeng Dajingzi Tin Industry Co., Ltd.	CHINA	Conformant
CID001908	Gejiu Yunxin Nonferrous Electrolysis Co., Ltd.	CHINA	Conformant
CID000555	Gejiu Zili Mining And Metallurgy Co., Ltd.	CHINA	Conformant
CID002844	HuiChang Hill Tin Industry Co., Ltd.	CHINA	Conformant
CID003387	Luna Smelter, Ltd.	RWANDA	Conformant
CID003379	Ma'anshan Weitai Tin Co., Ltd.	CHINA	Conformant
CID002468	Magnu's Minerais Metais e Ligas Ltda.	BRAZIL	Conformant
CID002500	Melt Metais e Ligas S.A.	BRAZIL	Conformant
CID002774	Metallo Spain S.L.U.	SPAIN	Conformant
CID001314	O.M. Manufacturing (Thailand) Co., Ltd.	THAILAND	Conformant
CID001399	PT Artha Cipta Langgeng	INDONESIA	Conformant
CID002503	PT ATD Makmur Mandiri Jaya	INDONESIA	Conformant
CID001406	PT Babel Surya Alam Lestari	INDONESIA	Conformant
CID003205	PT Bangka Serumpun	INDONESIA	Conformant
CID002835	PT Menara Cipta Mulia	INDONESIA	Conformant
CID001458	PT Prima Timah Utama	INDONESIA	Conformant
CID003381	PT Rajawali Rimba Perkasa	INDONESIA	Conformant
CID002593	PT Rajehan Ariq	INDONESIA	Conformant
CID002706	Resind Industria e Comercio Ltda.	BRAZIL	Conformant
CID001758	Soft Metais Ltda.	BRAZIL	Conformant
CID003397	Yunnan Yunfan Non-ferrous Metals Co., Ltd.	CHINA	Conformant
CID000438	EM Vinto	BOLIVIA (PLURINATIONAL STATE OF)	Conformant
CID001490	PT Tinindo Inter Nusa	INDONESIA	Conformant
CID000448	Estanho de Rondonia S.A.	BRAZIL	Audit in progress
CID002756	Super Ligas	BRAZIL	Audit in progress
CID002455	CV Venus Inti Perkasa	INDONESIA	Audit in progress
CID002570	CV Ayi Jaya	INDONESIA	Audit in progress

## Tungsten

Smelter ID	Standard Smelter Name	Country Location	RMAP Conformant
CID002317	Jiangxi Xinsheng Tungsten Industry Co., Ltd.	CHINA	Conformant
CID000258	Chongyi Zhangyuan Tungsten Co., Ltd.	CHINA	Conformant
CID000568	Global Tungsten & Powders Corp.	UNITED STATES OF AMERICA	Conformant
CID000769	Hunan Chunchang Nonferrous Metals Co., Ltd.	CHINA	Conformant
CID000825	Japan New Metals Co., Ltd.	JAPAN	Conformant
CID000875	Ganzhou Huaxing Tungsten Products Co., Ltd.	CHINA	Conformant
CID002082	Xiamen Tungsten Co., Ltd.	CHINA	Conformant
CID002320	Xiamen Tungsten (H.C.) Co., Ltd.	CHINA	Conformant
CID002494	Ganzhou Seadragon W & Mo Co., Ltd.	CHINA	Conformant
CID000218	Guangdong Xianglu Tungsten Co., Ltd.	CHINA	Conformant
CID002321	Jiangxi Gan Bei Tungsten Co., Ltd.	CHINA	Conformant
CID000766	Hunan Chenzhou Mining Co., Ltd.	CHINA	Conformant
CID002513	Chenzhou Diamond Tungsten Products Co., Ltd.	CHINA	Conformant
CID002543	Masan High-Tech Materials	VIET NAM	Conformant
CID002551	Jiangwu H.C. Starck Tungsten Products Co., Ltd.	CHINA	Conformant
CID000004	A.L.M.T. Corp.	JAPAN	Conformant
CID002833	ACL Metais Eireli	BRAZIL	Conformant
CID002502	Asia Tungsten Products Vietnam Ltd.	VIET NAM	Conformant
CID002645	Ganzhou Haichuang Tungsten Co., Ltd.	CHINA	Conformant
CID002541	H.C. Starck Tungsten GmbH	GERMANY	Conformant
CID002649	Hydrometallurg, JSC	RUSSIAN FEDERATION	Conformant
CID002318	Jiangxi Tonggu Non-ferrous Metallurgical & Chemical Co., Ltd.	CHINA	Conformant
CID002316	Jiangxi Yaosheng Tungsten Co., Ltd.	CHINA	Conformant
CID000966	Kennametal Fallon	UNITED STATES OF AMERICA	Conformant
CID000105	Kennametal Huntsville	UNITED STATES OF AMERICA	Conformant
CID002319	Malipo Haiyu Tungsten Co., Ltd.	CHINA	Conformant
CID002845	Moliren Ltd.	RUSSIAN FEDERATION	Conformant
CID002589	Niagara Refining LLC	UNITED STATES OF AMERICA	Conformant



CID002827	Philippine Chuangxin Industrial Co., Inc.	PHILIPPINES	Conformant
CID002724	Unecha Refractory metals plant	RUSSIAN FEDERATION	Conformant
CID002044	Wolfram Bergbau und Hutten AG	AUSTRIA	Conformant
CID002830	Xinfeng Huarui Tungsten & Molybdenum New Material Co., Ltd.	CHINA	Conformant
CID002315	Ganzhou Jiangwu Ferrotungsten Co., Ltd.	CHINA	Conformant
CID003388	KGETS Co., Ltd.	KOREA, REPUBLIC OF	Conformant
CID003407	Lianyou Metals Co., Ltd.	TAIWAN, PROVINCE OF CHINA	Conformant
CID002641	China Molybdenum Tungsten Co., Ltd.	CHINA	Conformant
CID003401	Fujian Ganmin RareMetal Co., Ltd.	CHINA	Conformant
CID003408	JSC "Kirovgrad Hard Alloys Plant"	RUSSIAN FEDERATION	Audit in progress
CID003427	Albasteel Industria e Comercio de Ligas Para Fundicao Ltd.	BRAZIL	Audit in progress

## Tantalum

Smelter ID	Standard Smelter Name	Country Location	RMAP Conformant
CID000211	Changsha South Tantalum Niobium Co., Ltd.	CHINA	Conformant
CID002504	D Block Metals, LLC	UNITED STATES OF AMERICA	Conformant
CID000456	Exotech Inc.	UNITED STATES OF AMERICA	Conformant
CID000460	F&X Electro-Materials Ltd.	CHINA	Conformant
CID002505	FIR Metals & Resource Ltd.	CHINA	Conformant
CID002558	Global Advanced Metals Aizu	JAPAN	Conformant
CID002557	Global Advanced Metals Boyertown	UNITED STATES OF AMERICA	Conformant
CID002547	H.C. Starck Hermsdorf GmbH	GERMANY	Conformant
CID002548	H.C. Starck Inc.	UNITED STATES OF AMERICA	Conformant
CID002492	Hengyang King Xing Lifeng New Materials Co., Ltd.	CHINA	Conformant
CID002842	Jiangxi Tuohong New Raw Material	CHINA	Conformant
CID000914	JiuJiang JinXin Nonferrous Metals Co., Ltd.	CHINA	Conformant
CID002506	Jiujiang Zhongao Tantalum & Niobium Co., Ltd.	CHINA	Conformant
CID001163	Metallurgical Products India Pvt., Ltd.	INDIA	Conformant
CID001277	Ningxia Orient Tantalum Industry Co., Ltd.	CHINA	Conformant
CID001200	NPM Silmet AS	ESTONIA	Conformant
CID001769	Solikamsk Magnesium Works OAO	RUSSIAN FEDERATION	Conformant
CID002544	TANIOBIS Co., Ltd.	THAILAND	Conformant
CID002549	TANIOBIS Japan Co., Ltd.	JAPAN	Conformant
CID002550	TANIOBIS Smelting GmbH & Co. KG	GERMANY	Conformant
CID001891	Telex Metals	UNITED STATES OF AMERICA	Conformant
CID001969	Ulba Metallurgical Plant JSC	KAZAKHSTAN	Conformant
CID000616	XIMEI RESOURCES (GUANGDONG) LIMITED	CHINA	Conformant
CID001522	Yanling Jincheng Tantalum & Niobium Co., Ltd.	CHINA	Conformant
CID001076	AMG Brasil	BRAZIL	Conformant
CID001175	Mineracao Taboca S.A.	BRAZIL	Conformant
CID001508	QuantumClean	UNITED STATES OF AMERICA	Conformant
CID002508	XinXing HaoRong Electronic Material Co., Ltd.	CHINA	Conformant

CID002512	Jiangxi Dinghai Tantalum & Niobium Co., Ltd.	CHINA	Conformant
CID002539	KEMET de Mexico	MEXICO	Conformant
CID002545	TANIOBIS GmbH	GERMANY	Conformant
CID000917	Jiujiang Tanbre Co., Ltd.	CHINA	Conformant
CID001192	Mitsui Mining and Smelting Co., Ltd.	JAPAN	Conformant
CID001869	Taki Chemical Co., Ltd.	JAPAN	Conformant

Smelter ID	Standard Smelter Name	Country Location	RMAP Conformant
CID003226	Umicore Finland Oy	FINLAND	Conformant
CID003228	Umicore Olen	BELGIUM	Conformant
CID003278	Niihama Nickel Refinery, Sumitomo Metal Mining	JAPAN	Conformant
CID003212	Ganzhou Tengyuan Cobalt New Material Co., Ltd.	CHINA	Conformant
CID003291	Guangdong Jiana Energy Technology Co., Ltd.	CHINA	Conformant
CID003411	Hunan CNGR New Energy Science & Technology Co., Ltd.	CHINA	Conformant
CID003280	Compagnie de Tifnout Tiranimine	MOROCCO	Conformant
CID003378	Jingmen GEM Co., Ltd.	CHINA	Conformant
CID003406	Murrin Murrin Nickel Cobalt Plant	AUSTRALIA	Conformant
CID003338	SungEel HiTech Co., Ltd.	KOREA, REPUBLIC OF	Conformant
CID003209	Gem (Jiangsu) Cobalt Industry Co., Ltd.	CHINA	Audit in progress
CID003210	Lanzhou Jinchuan Advanced Materials Technology Co., Ltd.	CHINA	Audit in progress
CID003213	Guangxi Yinyi Advanced Material Co., Ltd.	CHINA	Audit in progress
CID003225	Zhejiang Huayou Cobalt Company Limited	CHINA	Audit in progress
CID003255	Quzhou Huayou Cobalt New Material Co., Ltd.	CHINA	Audit in progress
CID003384	Ganzhou Highpower Technology Co., Ltd.	CHINA	Audit in progress
CID003293	Jiangsu Xiongfeng Technology Co., Ltd.	CHINA	Audit in progress
CID003233	JSC Kolskaya Mining and Metallurgical Company (Kola MMC)	RUSSIAN FEDERATION	Audit in progress
CID003390	NORILSK NICKEL HARJAVALTA OY	FINLAND	Audit in progress
CID003215	Tianjin Maolian Science & Technology Co., Ltd.	CHINA	Audit in progress
CID003221	Nantong Xinwei Nickel Cobalt Technology Development Co., Ltd.	CHINA	Audit in progress
CID003242	Fort Saskatchewan Metals Facility	CANADA	No valid audit
CID003403	Glencore Nikkelverk Refinery	NORWAY	No valid audit
CID003219	Hunan Brunp Recycling Technology Co., Ltd.	CHINA	No valid audit
CID003227	Gangzhou Yi Hao Umicore Industry Co.	CHINA	No valid audit

