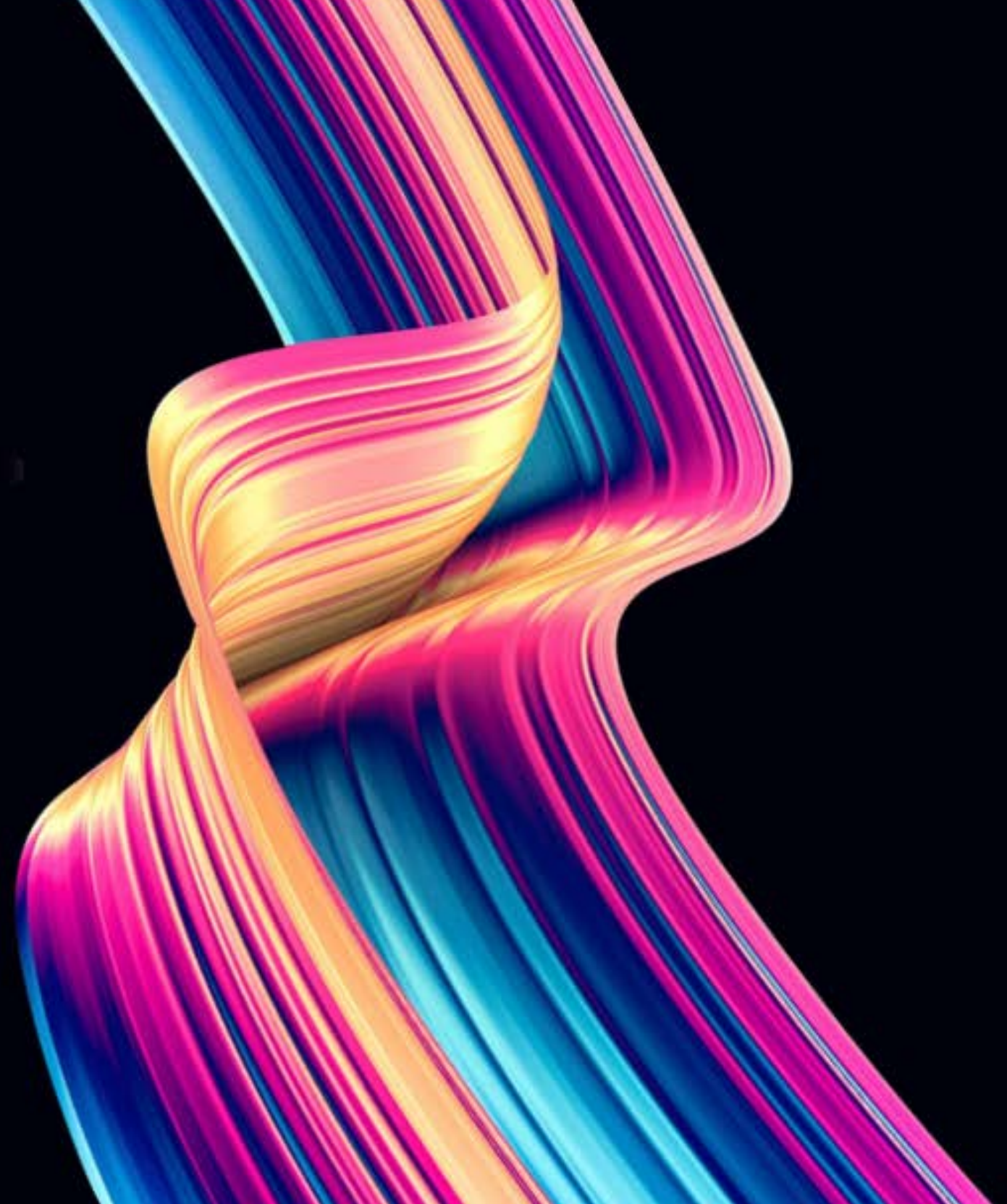


SIM Offering

Crafting Excellence
in Form Factors, Materials,
Finishes, Wrapping, Packaging,
Logistics and Sustainability

Valid



Index

Introduction ----- 2

Naked card offer ----- 4

Form ----- 4

Materials ----- 5

Finishes ----- 6

Eco SIM Card ----- 7

Packaging ----- 8

Solutions ----- 8

Graphics ----- 10

Added Value ----- 11

Logistics ----- 12

Wrapping ----- 13

Transport ----- 13

Environmental Compensation ----- 14

Consulting ----- 16

About Valid

Pioneering Secure Connectivity for Over 65 Years

At Valid, we have spent over six decades dedicated to the constant reinvention of technology, striving to create innovative solutions that foster a more connected, secure, and interoperable world for our valued customers.

The Power of Valid's Technology

Over 900 million Connected Devices
Our technology empowers more than 900 million connected devices worldwide, enabling seamless communication and interaction across the globe.

Top 5 Largest SIM Manufactures Globally
Among the 5 largest SIM card producers on a global scale, we have been at the forefront of enabling connectivity for businesses and individuals alike.

More than 100 Subscription Management Platforms implemented
We have successfully implemented over 100 Subscription Management Platforms worldwide, enhancing the way people connect and communicate.

Valid

Our Commitment

Our unwavering focus is on delivering secure connectivity and ensuring interoperability. We take pride in offering innovative trusted connectivity solutions that not only meet but exceed the expectations of our customers.

Footprint

With a strong presence in over 90 countries through our offices and factories, Valid is dedicated to serving the needs of customers on a global scale. Our vast footprint ensures that we can attend to your requirements wherever you are.

Global Presence

Below, explore our extensive global presence and discover how Valid is making secure, interconnected communication a reality for customers around the world.



Introduction

Poised to provide you with a comprehensive end-to-end SIM card solution

Within this portfolio, you will discover an array of product features and solutions that revolve around it. Begin exploring to delve deeper into our offerings.

Valid



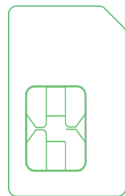
Naked card offer

Our product offering moves between different solutions where our customers can choose the form factor of the card and the card format

Form

Our removable cards are fully compatible with the form factors specified in ETSI standards. Form factors are related with the format of the card. All physical characteristics of our cards are in accordance with ISO/IEC 7816-1, ISO/IEC 7816 2 and ISO/IEC 7810.

Form factor



2FF - Mini SIM



3FF - Micro SIM



4FF - Nano SIM

Card format

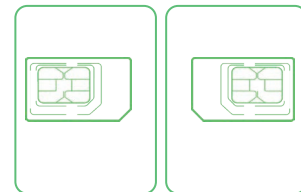
Our offer extends to three different card formats that support all the form factors.

Our card format offer includes the full SIM, half SIM, quarter SIM and MFF2 format.

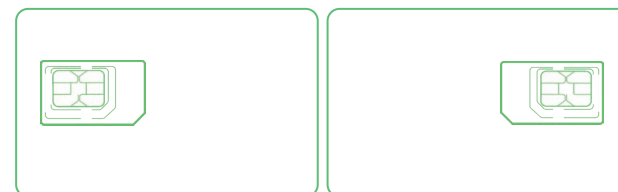


MFF2

The MFF2 is a specific format defined by ETSI. Smaller than previous form factor and with the possibility to be soldered in the device.

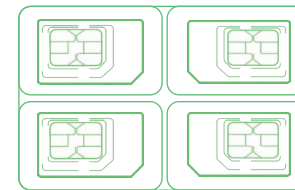


Half SIM with 2FF/3FF/4FF



SIM ISO with 2FF/3FF/4FF

Each format can be customized with the form factor that our customer requires.



Quarter SIM with 2FF/3FF/4FF

Valid



Some numbers about the transition from **SIM ISO to Half SIM card** for every 1 million cards issued:

- ✓ 1,800 Kgs of ABS plastic saved
- ✓ 25 tons of CO₂ saved from logistics
- ✓ 19.438 tons of CO₂ saved in SIM card shipments
- ✓ 21.894 tons of CO₂ saved in SIM cards with flow wrapping

Naked card offer

Materials

ABS

Acrylonitrile butadiene styrene, a common thermoplastic polymer. Compared to other polymers provides favorable mechanical properties such as impact resistance, toughness, and rigidity.



High environmental impact.



This material can be combined with environmental compensation programs in order to eliminate the impact of the long degradation period of the material. See Environmental Compensation section in P. 14

Recycled ABS

Acrylonitrile butadiene styrene, a common thermoplastic polymer.

This material can be combined with pure unrecycled ABS, from 25% to 99% or 100% recycled can be used in the products (impact on product cost). The performance of the material versus pure ABS is guaranteed in our products.



Low environmental impact.

The fundamental characteristics of the product are not affected despite being a material with low environmental impact.



Final aspect of the card will be the same on the rABS than ABS once printing is done.

Valid

Comparison Table

COMPARISON	FEATURES	ABS	rABS
PRODUCTION AND PERSONALIZATION	Dual Thickness Card	Yes	Yes
	Single Thickness Card	Yes	Yes
	234FF punching	Yes	Yes
	Laser Engraving	Yes	Yes
	Scratch-Off	Yes	Yes
	Compatible with EMV	No	No
	Laser Barcode quality printing	B	B
OTHER ASPECTS	Disposal Methods	No changes from recycled or new cores	No changes from recycled or new cores
	Core Material Color Trend*	White	Greyish
	Heat Resistance suitable for SIM	Yes	Yes

Naked card offer

Materials

PVC

Polyvinyl chloride, is the world's third-most widely produced synthetic polymer of plastic.



High environmental impact.



This material can be combined with environmental compensation programs in order to eliminate the impact of the long degradation period of the material. See Environmental Compensation, P. 14

Recycled PVC & Bio PVC

Polyvinyl chloride, is the world's third-most widely produced synthetic polymer of plastic.

This material can be combined with pure unrecycled ABS, from 25% to 99% or 100% recycled can be used in the products (impact on product cost). The performance of the material versus pure ABS is guaranteed in our products.



Low to Medium environmental impact.

The fundamental characteristics of the Recycled PVC are not affected despite being a material with low environmental impact. However, the Bio PVC material can be combined with our environmental compensation programs in order to eliminate the impact of the long degradation period of the material.



See Environmental Compensation section in P. 14

Valid

Comparison Table

COMPARISON	FEATURES	PVC	rPVC	BIO PVC
PRODUCTION AND PERSONALIZATION	Dual Thickness Card	Yes	Yes	Yes
	Single Thickness Card	Yes	Yes	Yes
	234FF punching	Yes	Yes	Yes
	Laser Engraving	Yes	Yes	Yes
	Scratch-Off	Yes	Yes	Yes
	Compatible with EMV	Yes	Yes	Yes
	Laser Barcode quality printing	C	D	n/a
OTHER ASPECTS	Disposal Methods	No changes from recycled or new cores	No changes from recycled or new cores	No changes from recycled or new cores
	Core Material Color Trend*	White	Yellowish	Yellowish
	Heat Resistance suitable for SIM	Yes	No	No

Naked card offer

We believe...



that overall strategy of “use and throw away” is not going to last forever, so at Valid we promote **our policy based on a circular approach** where the plastic residues can be converted into raw materials again to reduce the amount of plastic in the field and therefore the environmental impact.



For that we strongly recommend the qualification of rABS for any SIM project (rABS is also Halogen Free) and also **combine it with our compensation programs**. See Environmental Compensation section in P. 14

Material comparison

Comparative table have been created for making easier decisions when choosing the best materials for our customers

COMPARISON	FEATURES	rPVC	rABS	PETG/PET	PLA	BIO PVC
PRODUCTION AND PERSONALIZATION	Dual Thickness Card	Yes	Yes	Yes	Yes	Yes
	Single Thickness Card	Yes	Yes	Yes	Yes	Yes
	234FF punching	Yes	Yes	Yes	No	Yes
	Laser Engraving	Yes	Yes	Yes	Yes	Yes
	Scratch-Off	Yes	Yes	Yes	Yes	Yes
	Compatible with EMV	Yes	No	Yes	No	Yes
	Barcode quality	C	B	B	C/D	B
DISPOSAL METHODS	Incineration	No	Yes	Yes	Yes	No
	Mechanical Recycling	Yes	Yes	Yes	Yes	Yes
	Landfill	Yes	Yes	Yes	Yes	Yes
	Backyard Compost	No	No	Yes	Yes	Yes
	Industrial Compostable	No	No	Yes	Yes	No

Valid

Finishes

Available Card Finishing for all our naked card solutions.

Matt

It is an opaque and dull finish.



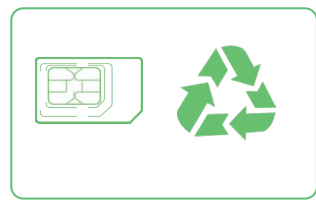
Glossy

A glossy finish can be used to be eye-catching or to convey a plus of quality. It is very effective to create attractive effects.

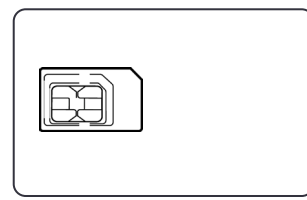


SIM Green Offering

Combining the best shape and material alternatives available,
This is our eco SIM card solution, the most environmentally friendly solution



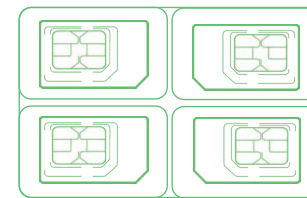
**RECYCLED PVC
OR ABS**



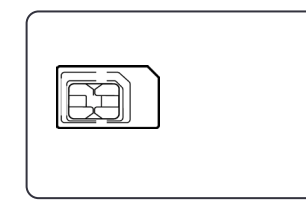
FROM ISO



TO HALF SIM



OR QUARTER-SIM



**COMPENSATION
PROGRAM**



Valid

Packaging

This wrapper is **designed to protect** the cards as well as the chip in them.
It serves not only as a protector but also as an information support so that the cards can be accompanied with an added value.

Solutions

Plastic Bag



Polypropylene material.
Thermoplastic with high chemical,
mechanical and heat resistance.



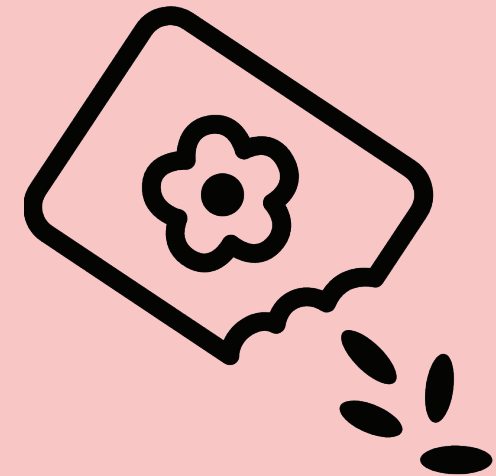
From an environmental point of view,
it is not the most advisable because
additional plastic is added to
the product.



Fully recyclable material.



This material can be combined
with environmental compensation
programs in order to eliminate
the impact of the long degradation
period of the material.
See Environmental Compensation
section in P. 14



Packaging

Valid

Our solutions work for full, half SIM and quarter SIM

Paper Folder



Materials

This packaging could be made from recycled paper and with FSC certifications.



Measures

Adapted to all card formats. Our solutions are tailored to the customer's needs. Each case could be studied deeper by our team in order to provide the best solution that meets all the required needs. See Consulting section in P.16



Finishes

Paper weight, matt or glossy, there are different finishes that could be chosen for this folder. See Consulting section in P.16, for more information on our consulting services.



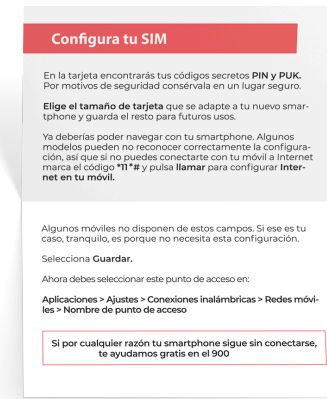
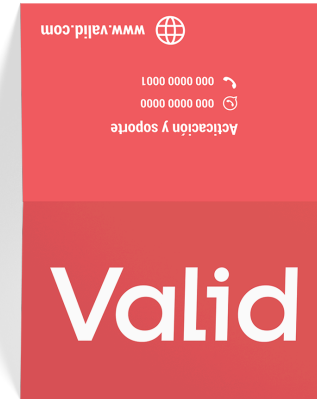
Graphics

Our graphic team will be in charge of translating your ideas to packaging. See Graphic section in P. 10.



Leaflet

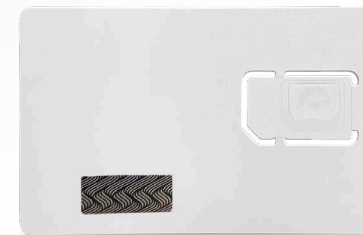
A printed mini guide, also known as leaflet, is offered as a support of the information accompanying the card.



A more environmentally friendly option is to print out a QR code with this information. QR codes could be printed both on the folder and on the card.

Scratch-off

Customized system to hide card personalization data.



Packaging

Graphics

Our graphic services prepare our customers' designs for printing the selected packaging



The **Laser engraved** personalization data for mass production of batches of cards.



The **inks used comply** with RoHs/REACH Annex 17 certifications and HF tests with satisfactory results (HF stands for Halogen Free).



The **UVI printing process** is used. An ultraviolet light dries the ink immediately after it is deposited for better adhesion.



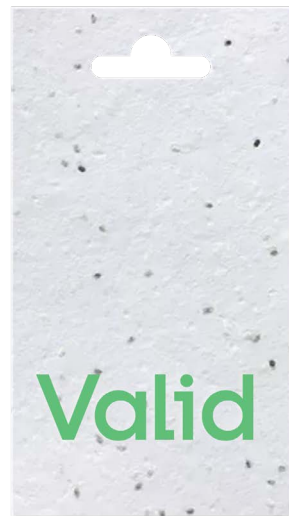
Consulting services for the best adaptation of needs to possible solutions.

Packaging

Added Value

As a regular practice, we place the SIM cards inside envelopes and/or folders

Seed paper material can be presented as various options to consider as an eco-friendly and environmental approach for SIM cards folders.



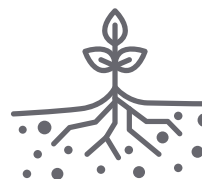
Germination Methods



1. **Soak** the seed pack in the water.



2. **Put the seed** pack into the soil directly.



3. **Lead time** is around 1 week.

Valid



Lead times

- **Anticipation planning is important.** Extra timing to deliver compared with the normal paper.

Depending on the paper

- **manufacturing** (Manual or Machine).

The printing lead time is **1 week**

- more than normal paper printing process.

Tell us your needs and our team will find the best solution to meet them. See Consulting section in P. 16

Logistics

Explore our extensive network of global sites, enabling our logistical prowess and capability for **seamless global production**.




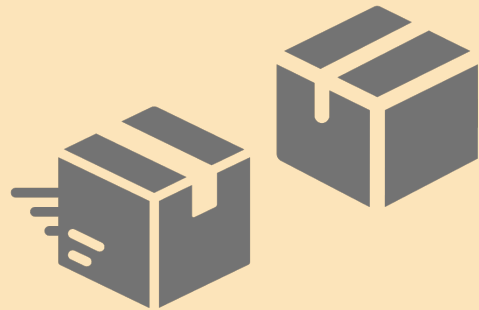
Logistics

Wrapping

Our **final packaging** is in charge of protecting the boxes and their packaging until the final shipment.


In addition to the protection, the **organization of the cards in batches** it is adapted to a better logistic solution of our customers' warehouses.


 We have a standard packaging solution, but we can also **adapt to the needs of our customers** for the size of the box and the layout of the labels for the boxes to suit the logistics of our customers' sites.




First Level

The first level of **boxes** contains batches of cards labeled with customized labels to suit the requirements of our customers' warehouses.


 **Material**
Cardboard is the material used.


 **Packaging**
All our **packaging** is adapted to the means of transport, whether by land, sea or air, to ensure the protection of the products. See Consulting section in P. 16

 **Green solution**
No tape would be required. Box is self-closed with a dedicated flap on it. Due to the GSMA SAS-UP requirement, an anti-taper label must be attached in order to verify whether this box was open. This label will be removed and replaced by a paper tape that will also secure the box a bit more.

Second level


The second level of packaging is also composed of boxes. **Protection and organization** are the objective of this level of boxes. These are larger and serve to contain the smaller boxes in which the cards have been previously placed.


 **Cardboard** is the material used.

 All our packaging is **adapted to the means of transport**, whether by land, sea or air, to ensure the protection of the products. See Consulting section in P.16

Third level

Composed of the **pallet** itself. The boxes of the second level are stacked on it to adapt the load to a more manageable logistics.

 Composed of a protective **topcoat** adapted to the means of transport to be used.


 This level is to help our customers to move the product for better logistics.


Valid

Transport

One of our missions is to offer our customers the **best transportation solution** to deliver the product in the best conditions.

 Shipments by **land, sea and air**.

 **Deliveries** can be made from our factories in Asia, Africa, America and Europe.

 **Incoterms** for transportation that best fit the needs of our customers.



Environmental compensation

In order to make a significant difference and bring a real benefit to our environment and planet, Valid decided to create, together with **Plastic Bank**, an environmental **compensation program**.



Plastic Bank is a social enterprise **empowering a regenerative society**. They build ethical **recycling ecosystems** in coastal communities and reprocess the materials for reintroduction into the global supply chain as Social Plastic™.



Their collectors receive a compensation for the materials they collect which helps them to provide basic family necessities such as **groceries, cooking fuel, school tuition, and health insurance**.



Their **certified blockchain platform** secures the entire transaction and provides real-time data visualization – **allowing for transparency, traceability, and rapid scalability**.



Environmental compensation

Compensation Program

With this goal, **Plastic Bank** is relying on companies like Valid to support the collection process of the plastic in order to:



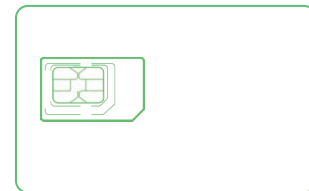
Mitigate the impact of many corporations and potentially reduce, **offset or decrease the plastic footprint** of their operations.



Improve the social and economic situations in different regions of the world by **creating job opportunities** through plastic waste collection.



Supports environmental stewardship and circular economy.



1 SIM card

1x1



1 plastic bottle removed from the environment

For every SIM card that our customers sell to their consumers, Valid will collect one plastic bottle from the environment



Valid

Valid's **environmental compensation program** includes:



Monitorability of your impact thanks to Plastic Bank's Blockchain-based application.



Full traceability **report on plastics** collection and supply chain performance.



Regular audits to ensure operations are compliant, ethical, and abide by a Code of Conduct.



Zero-tolerance policy for child labor, forced labor, claim double-counting, unsafe working conditions, and landfill usage.

Thanks to our compensation program, Valid intends to **prevent millions of single-use plastic bottles** from entering the oceans. Plastic Bank operates in Brazil, Indonesia, Philippines and Egypt and have an ambitious expansion roadmap for the years to come.

Consulting

Consulting Services for Customized SIM Solutions

At Valid, we understand that the SIM card industry is diverse, with unique requirements for every business. We take pride in offering **comprehensive consulting services** to assess your individual needs, ensuring you receive tailored SIM card solutions that **meet your specific demands**.

Our services cover a wide spectrum, from form factors to sustainable practices, and we are committed to delivering **cost-effective and eco-friendly solutions**.

Understanding Your Unique Needs

Every business has distinct requirements, and SIM cards are no exception. We **work closely with our clients** to assess their specific needs, taking into consideration various factors.



1. Form Factors

We recognize that SIM cards come in **different shapes and sizes**. Our consultants will assist you in selecting the ideal form factor that aligns with your devices and systems.



2. Materials and Finishes

From materials to finishes, we offer **expert guidance in selecting options** that best suit your brand, performance, and aesthetic preferences.



3. Wrapping and Packaging

Presentation matters. Our team will advise you on the packaging solutions that not only **protect your SIM cards** but also create a memorable unboxing experience for your customers.



4. Logistics

We excel in optimizing the logistics chain, ensuring your SIM cards are **efficiently transported and delivered on time**, all while minimizing costs.



5. Sustainability

In an era of environmental consciousness, our consultants specialize in **recommending eco-friendly solutions** that reduce the carbon footprint of your SIM card production and delivery.

Consulting

Bespoke Solutions

There are occasions when the requirements are special and very specific. Our consulting service is there to meet these needs and to tell our customers what can be done and how to do it so that the environmental impact is as low as possible.

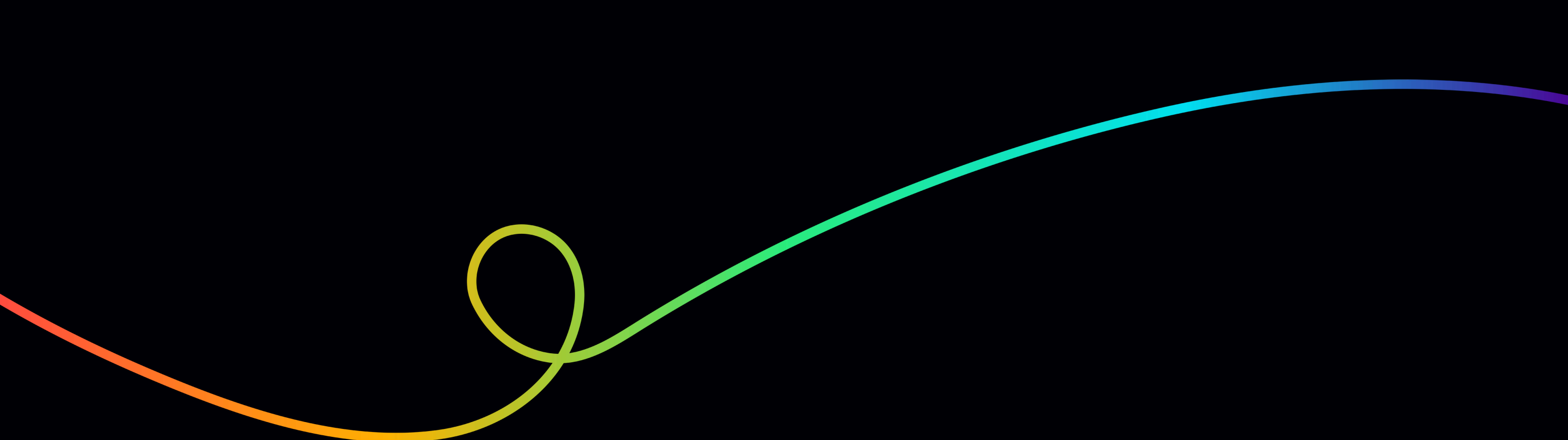
We thrive on challenges, and our team will work diligently to find innovative solutions to your unique demands, always with sustainability in mind.



Valid

**At Valid,
we go beyond the ordinary,
striving to provide you with
SIM card solutions that are both
cost-effective and
eco-conscious.**

Our consulting services are your gateway to a customized SIM card experience that not only **meets your expectations** but also **aligns with your commitment to a greener planet.**



Valid

EMPOWERING THE FUTURE OF CONNECTIVITY

Contact us today

