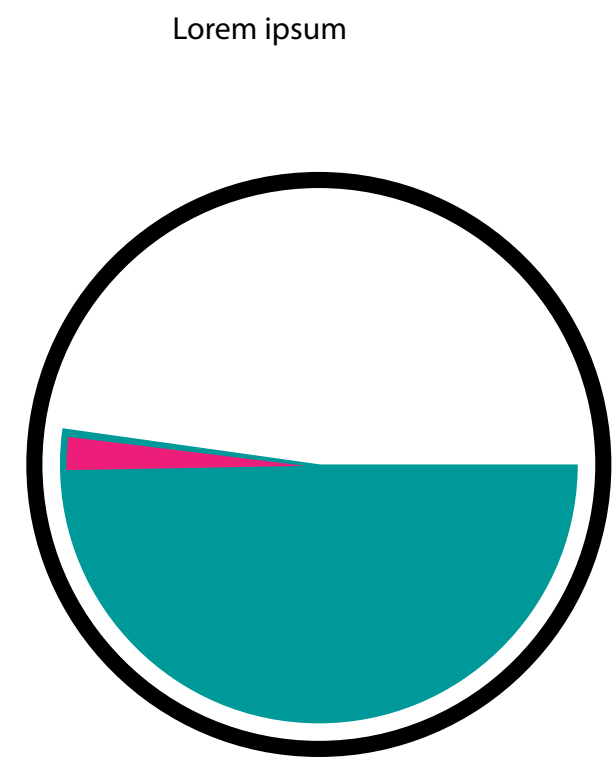Hello i'm

b:bot

When recycling counts double

A high potential of recycled material.

In France, 16 billion plastic bottles, which represent 400,000 tons of PET, are thrown away each year.

Barely more than one bottle out of two is recycled across the country, one out of ten in Paris and Marseille. On the recycled bottles deposit, 50% are converted into different products and recycled but only 7% become bottles again in a true circular economy logic.

The government targets 100% of recycled plastic by 2025. Contributing to this goal, b:bot digitalizes and makes profits out of recycling to boost the circular economy of plastic bottles (PET).

1/2 recycled
France

1/10 recycled
Paris Marseille

Lorem ipsum

16 billion
of plastic bottles
thrown each year

57% are recycled

7% in bottles

b:bot, how does it work?

For the citizen/ consumer

b:bot gives a second life to plastic bottles. This global solution can be integrated anywhere including in urban areas.

In 2020 we plan to install 300 b:bot in supermarkets and other public places in partnership with local authorities.

User drops its PET plastic bottle (water and juice bottles, milk excepted)

Its bottle is analyzed by a barcode reading and sensors system checking its size, weight and composition.

The bottle is accepted and sorted: colorless bottles will become bottles again, colored bottles will be recycled in various products.
It is then transformed into flakes ready to be recycled. The user sees the flakes droping down in the bins.

If the bottle is refused, a message on the screen explains why (too heavy / must empty, unknown bottle, bottle refused / milk)
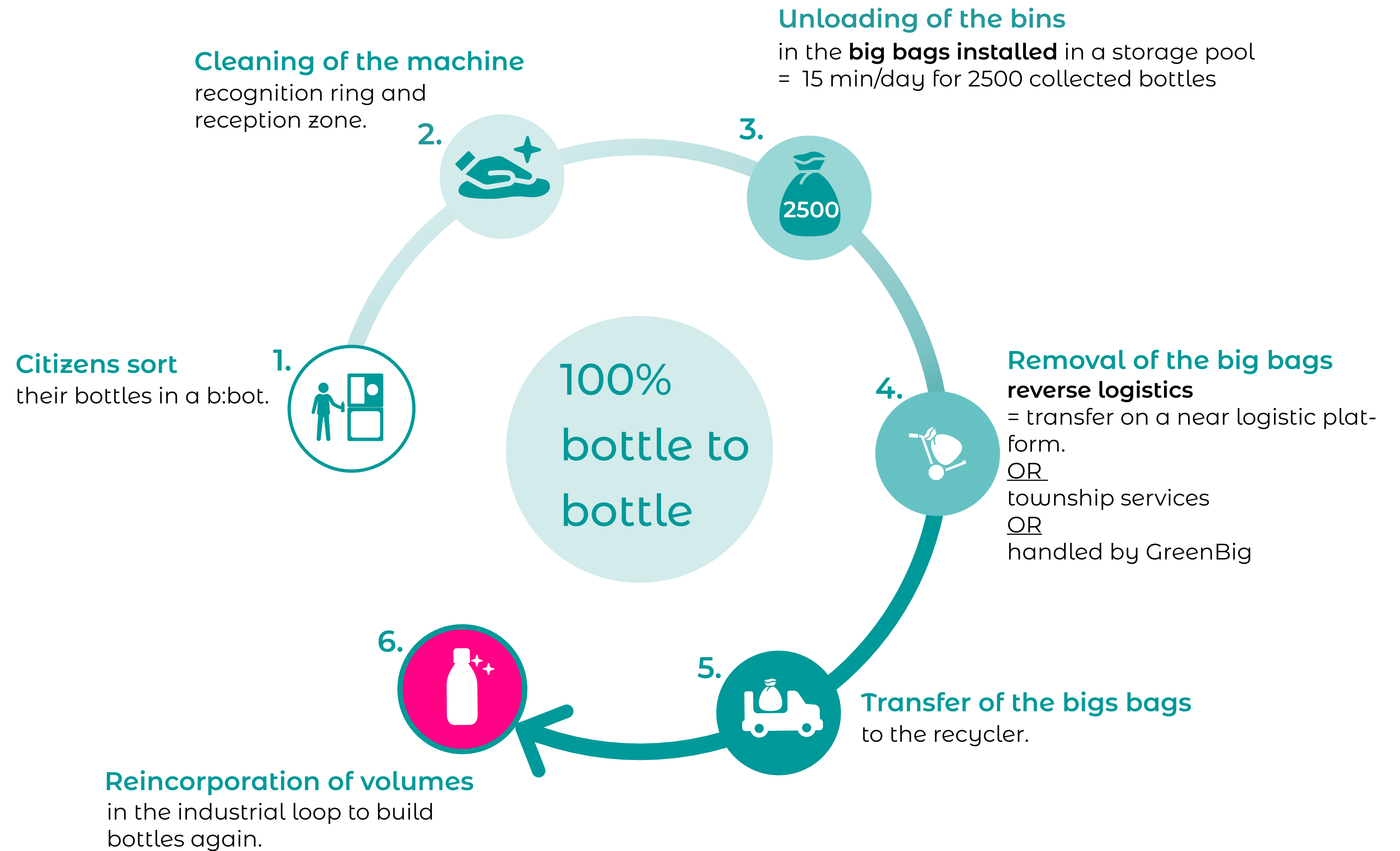
Everytime a bottle is accepted, the user wins points or cents. He can choose to print it, save it on his loyalty card or make a donation to an association.

b:bot, how does it work?

For you

An economically and ecologically **vertuous loop**

100% bottle to bottle

Citizens sort
their bottles in a b:bot.

1.

Cleaning of the machine
recognition ring and reception zone.

2.

Unloading of the bins
in the **big bags installed** in a storage pool
= 15 min/day for 2500 collected bottles

3.

Removal of the big bags
reverse logistics
= transfer on a near logistic platform.
OR
township services
OR
handled by GreenBig

4.

Transfer of the bigs bags
to the recycler.

5.

Reincorporation of volumes
in the industrial loop to build bottles again.

6.

A revolutionary solution.

Costs divided by 3

Thanks to a patented bottle grinding technology at the source, b:bot has a storage capacity of 3000 bottles in less than 1m2: it means less emptying, handling, transport and logistic costs.

A pre-transformed product resold 3 times more expensive

b:bot sorts, separates and transforms the bottles into a product ready for recycling, called flakes: it can be sold €600 per tonne against €200 for a tonne of bottles that comes out of a sorting center.

More bottles collected

b:bot gives meaning and promotes sorting: it explains to the users the recycling process, rewards them, offers to make a donation and includes them into a community of sorters.

100 bottles

100 bottles
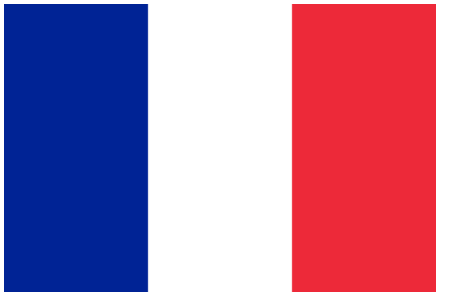compacted

100 bottles
in flakes

The revolution: a profitable business model.

b:bot is the only solution that can fully finance recycling by reselling PET from the bottles collected and then transformed into sorted flakes directly into the machine. The economic model does not require any subsidy or eco-contribution.

Hypothesis	
• Selling price of PET per tone / sorted flakes	550€
• Selling price of others per tone / plastic ball	250€
• Eco-contribution Citeo / tone :	0€

	b:bot	Compacting machine 1	Compacting machine 2
Number of bottles collected / month / machine	40 000	40 000	40 000
Tones of PET collected / month	1,2	1,2	1,2
Storage capacity	3000	1000	350
Number of emptying needed / month	13	40	114
Costs			
Machine purchase	24 900€	45 000€	20 000€
= Amortization / month (60 months)	-415€	-750€	-333€
Maintenance / month	-95€	-100€	-100€
Digital services subscription (stats, pub, promo, fid, etc.)	-45€	0€	0€
Total costs by month	-555€	-850€	-433€
Incomes generated by selling the PET collected	660€	300€	300€
Incomes / Costs per month per machine	105€	-450€	-33€
Integration of the «internal» costs			
Incentive cost (1ct per bottle)	-400€	-400€	-400€
Estimated cost for machine emptying (1/4h / dump)	-67€	-200€	-571€
Total costs /month / corner (1 machine)	-362€	-1050€	-1005€

A « made in France » solution

The b:bot machine is totally designed and manufactured in France, in partnership with industrialists from the region of Normandy.

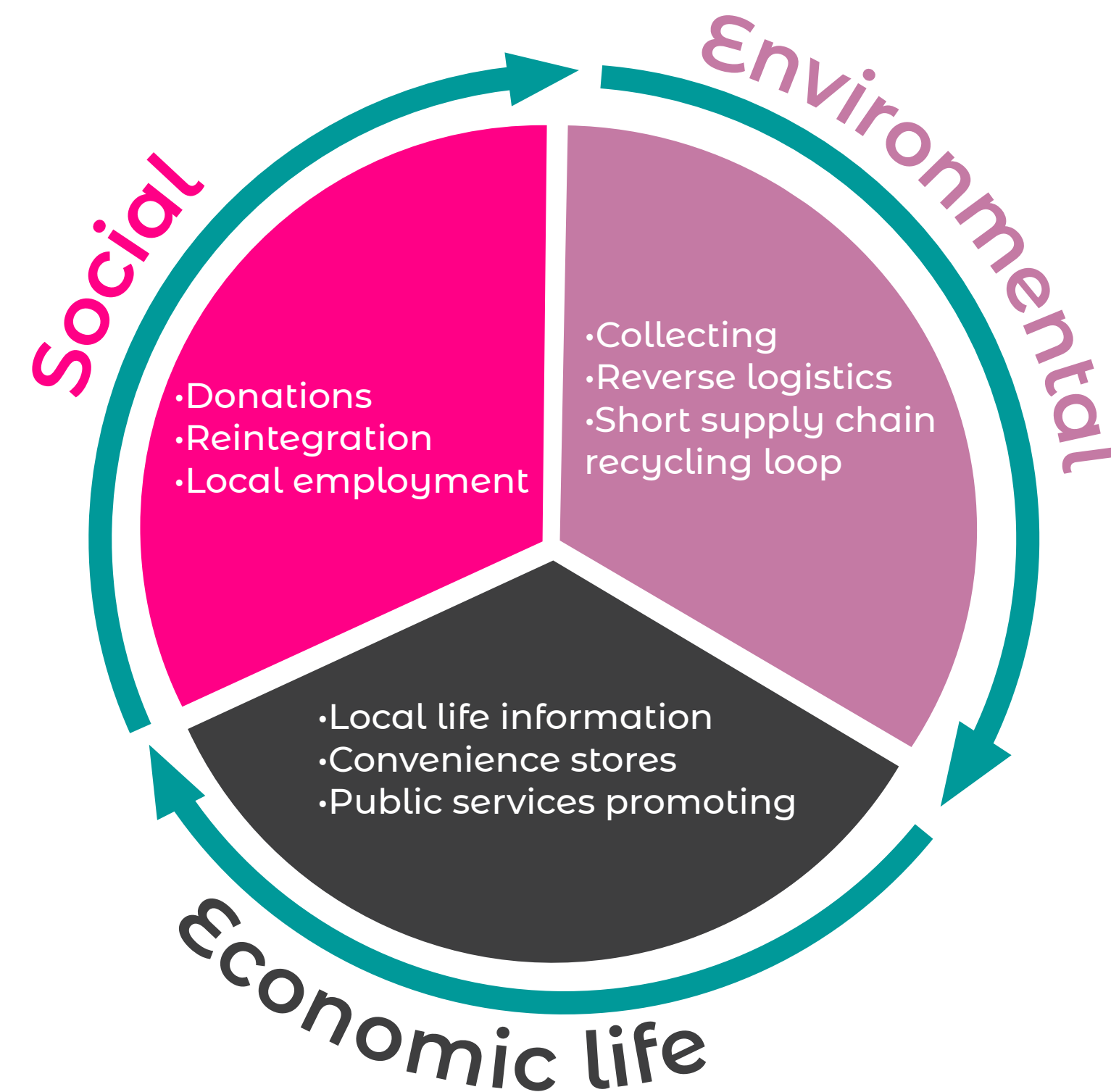| TOSHIBA	ALTRAN	Proxiad	ALTERVAL
Dieppe	Caen	Rouen	Le Havre
b:bots' manufacturing	Design office - mechanic engineering	UX, software/ AI and platform development	maintenance, distribution

... and local.

b:bot promotes local anchorage and is easily integrated into existing organizations: local authorities, social economy, reverse logistics, etc. For example, the implementation of collecting machines makes it possible to establish operational partnerships encouraging local employment as well as charitable partnerships for the benefit of associations.
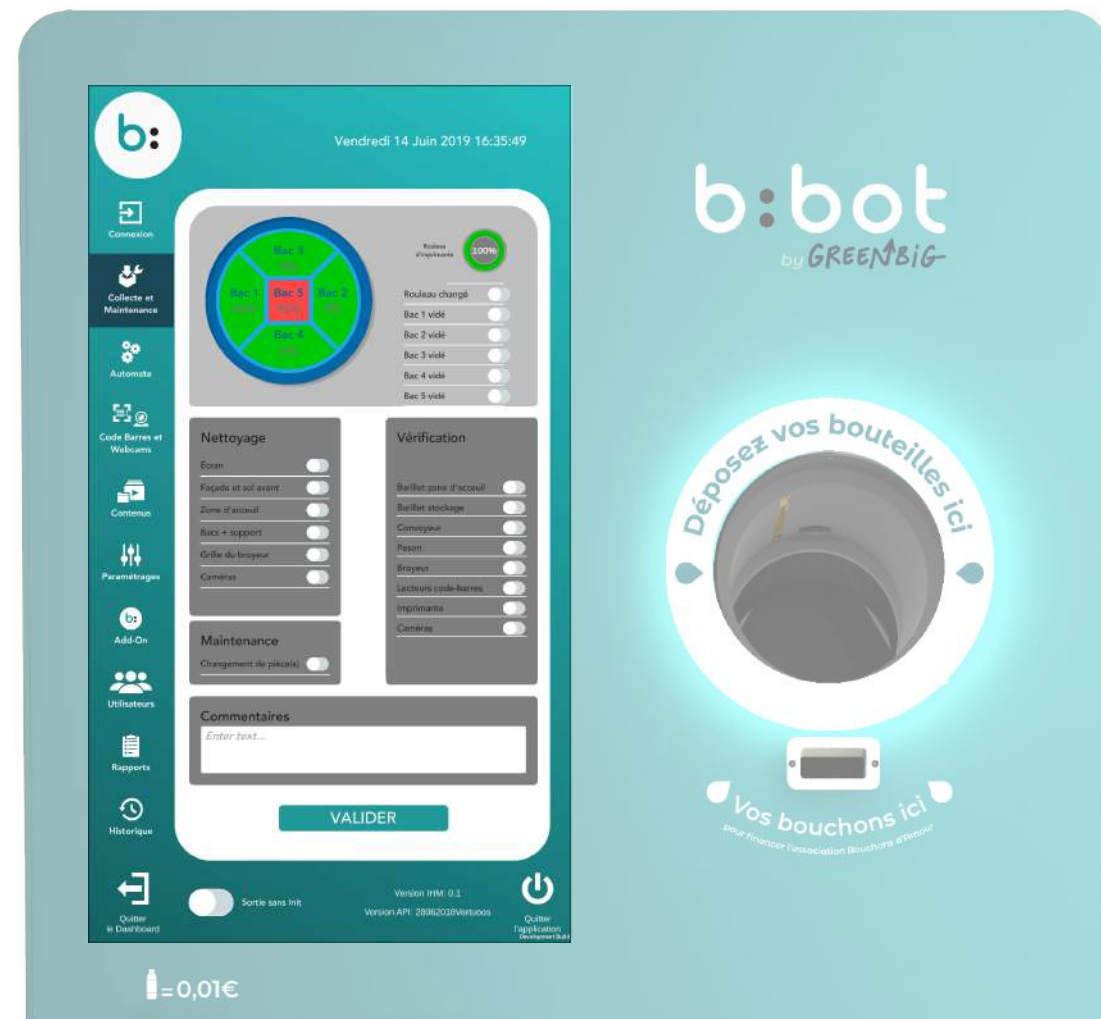
In the same way, the logistic promotes the creation of local and short supply chain recycling loop.

Furthermore, **b:bot** boosts the local life: information, promotion of convenience stores and proposed services by the city council, etc.

Social
- Donations
- Reintegration
- Local employment

Environmental
- Collecting
- Reverse logistics
- Short supply chain recycling loop

Economic life
- Local life information
- Convenience stores
- Public services promoting

*ESS = Entreprise Sociale et Solidaire
ESAT = Etablissement et service d'aide par le travail
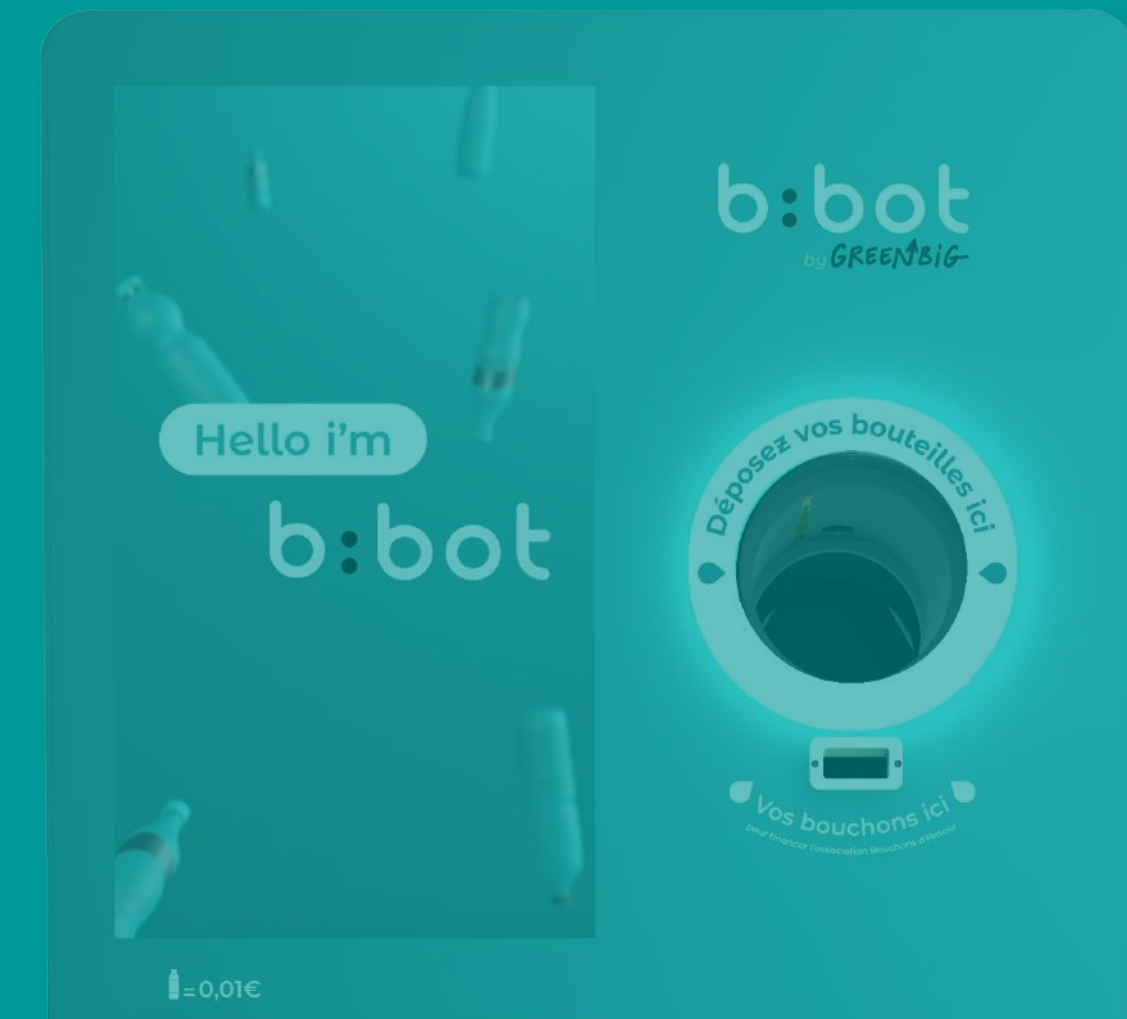EA = Entreprise Adaptée

Digital

Remote monitoring

b:bot is connected to a remote management platform thanks to AI. The machine learning combined to the remote monitoring allows costs reduction in terms of logistic and maintenance. Thanks to its embarked intelligence, b:bot is for example able to recognize and identify the new bottles on the market.

Interactive & incentive

User earns 1 to 2 ct for each bottle.

Interactive and connected, the user experience is extended by a chat bot and a mobile application. The consumer is included into a community of sorters, encouraged to accumulate points and to follow its sorting performance.

An act that counts double.

b:bot makes the commitment to recycle every recovered bottle into a new one. Thanks to the transparency technology of the bins, the user sees directly what becomes his bottle, and knows it will be recycled.

For each bottle recycled with b:bot, the user has the possibility to make a donation to the association *Océans Sans Plastiques*, which fights against oceanic plastic pollution. The amount collected will finance bottle collection operations on the beaches.
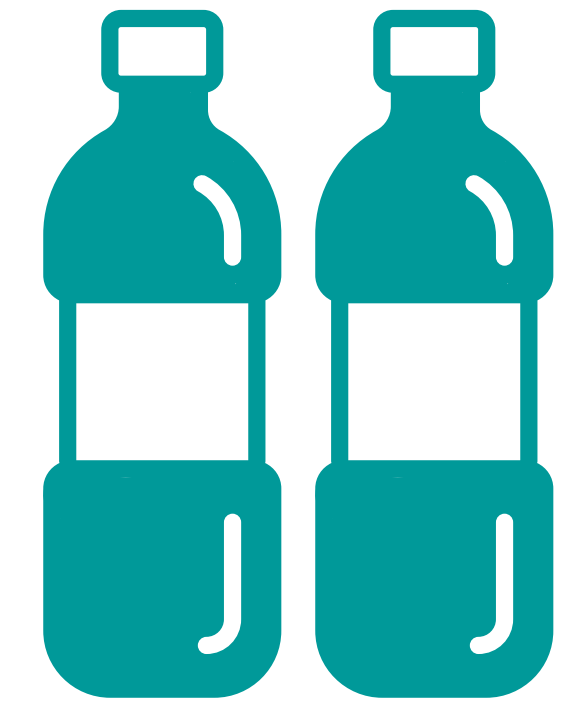
A recycled bottle with b:bot makes it possible to collect a second bottle on the beaches.

collected by b:bot   =   recycled

Bouchons
d'amour

OSP
Océans
Sans
Plastiques

Specifications / prices.

Prices

Selling price / machine	24 900€
Rental rate / month / machine	500€
Maintenance subscription - remote (6/7d , h12/24) - on site (d+1)	95€
Digital services subscription (stats, pub, promo, fid, ect.)	45€

conso

product

sorting

sorting center

pre washing

regeneration

seperating

collecting

crushing

b:bot's area of action

Technical specifications

Size	183x95x95
Weight	480kg empty
Bottles capacity range	0,15 à 2,5 L
Storage capacity	3000 bottles = 5 bins 15kg each
Sorting capacity	2 types of packaging (colorless / colored bottles)
Bottle insertion height	1,29 meters
Collection of corks	Front insertion option
Speed	30 bottles / minute
Waste recognition	Bar code, weight, size, material
Identification	Barcode, QR code, RFID, NFC
Printer	Thermal on recycled paper
Web platform	32" monitor touch screen full HD
Controler	Real-time through the web platform
Maintenance	On remote with the monitoring
Power supply	230v/50-60 hz/16A
Connection	4G / Wifi / Lan
Standards	CE - RoHS - CEM
Power consumption	4,86 kW (on- mode) - 2,74 kW (standby)
Sound level	In cycle - 65-67db (store equivalent)

b:bot's origins.

september 2017
launch of the r&d of shredders integrating the sorting of flakes

november 2017
manufacture of the experimental bbot model - consumer tests

december 2017
creation

july 2018
production of the first functional prototype

september 2018
first demonstration of the b:bot machine

december 2018
fundraising from institutionnal investors

september 2019
16 first b:bot installed

february 2020
launch of the national deployment

december 2020
400 b:bot installed

december 2021
2000 b:bot installed

Benoit Paget, President

"The frog at the bottom of the well thinks the sky is round. »

Fabien Rimé, R&D Director

"Innovation is only of interest if it advances a cause."

Baptiste Danezan, C.D.O

"Everyone wants to save the planet but no one wants to take down the garbage. »

Our partners and support

AD NORMANDIE PARTICIPATIONS   ALTERVAL Valoriser autrement   bpifrance   Factory EMPOWERING STARTUPS   CA CRÉDIT AGRICOLE

Contact

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Our company

so many opportunities
GREENBiG

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Our solution

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