

MASUKO 

▶ *concretely anything*

This is the actual product in use



+



into reusable
light concrete in
extremely high
volumes





MASUKO

patent granted
Ozone Green Award 2018
20 years in the making
lab tested in Europe
industry tested in Europe
national tv and radio
construction to date \$250k+



WIKIPEDIA
The Free Encyclopedia

Finalist in Seoul
Impact Collective
Investment Program
Dec/2020

The purpose of this
financing round is for the
ASEAN Regional JV

Community-
Driven
Investment &
Acceleration
For Impact
Makers

IMPACT COLLECTIVE



Urban development needs constructions >
Connected cities need new highways and roads >
Constantly growing demand for materials AND
Governments require recycling and sustainability

Constructions will happen, no matter what!
If we do not switch to waste concrete NOW,
they WILL keep mining gravel from riverbeds
and destroy ecosystems.

Jakarta Post: Indonesia plans to build
1.500 km of toll roads by 2024 and
4.500 km more by 2030.
>> 500 km every year

This is annually EITHER
4M tons of mined gravel OR
2M tons of MASUKO waste concrete
IT IS A CHOICE!

1 MASUKO mixing plant can make additive to convert

up to

3.000.000.000

kg of waste per year



Reduce natural resources used in light concrete production by turning solid waste into a **reusable raw material** for all public infrastructure development.

10 ASEAN + JPN + KOR + AUT + NZL

1 bln people live here (+IND +CHN)

Construction needs and waste problems are the same in EVERY SINGLE COUNTRY we do not need to educate them about it

+

Vision

TAM
1.8B

Market

SAM
180M

SOM
18M

What else can you do?

- + Landfill (not really a solution)
- + Incinerator fuel (limited types, high investment)
- + Car tires into asphalt (specific, low volume)
- + Soft plastic into asphalt (specific, low volume)
- + Soft plastic melt into bricks (low volume, limited reach)
- + Polystyrene cement mix (breaks on touch, in retail in EU)

All of them have low waste processing volume and/or high initial investment, and work on a few thermoplastics only (melting)

MASUKO solves many solid waste related problems

- makes concrete endlessly reusable
 - processes any mixed waste
- makes end product life cycle longer
 - islands: can build from own waste
- can use ocean plastic or desert sand
- can make ~3.000 different products
- uses standard concrete mixing tech
 - zero investment on users' side

+

9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE



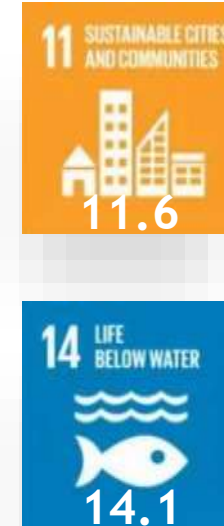
9.4

12 RESPONSIBLE
CONSUMPTION
AND PRODUCTION



12.2 12.5

SDG



9.4 By 2030, upgrade infrastructure and **retrofit industries** to make them sustainable, with increased resource-use efficiency and greater adoption of clean and environmentally sound technologies and industrial processes, with all countries taking action in accordance with their respective capabilities

12.2 By 2030, achieve the sustainable management and **efficient use of natural resources**

12.5 By 2030, substantially reduce waste generation through prevention, reduction, **recycling and reuse**

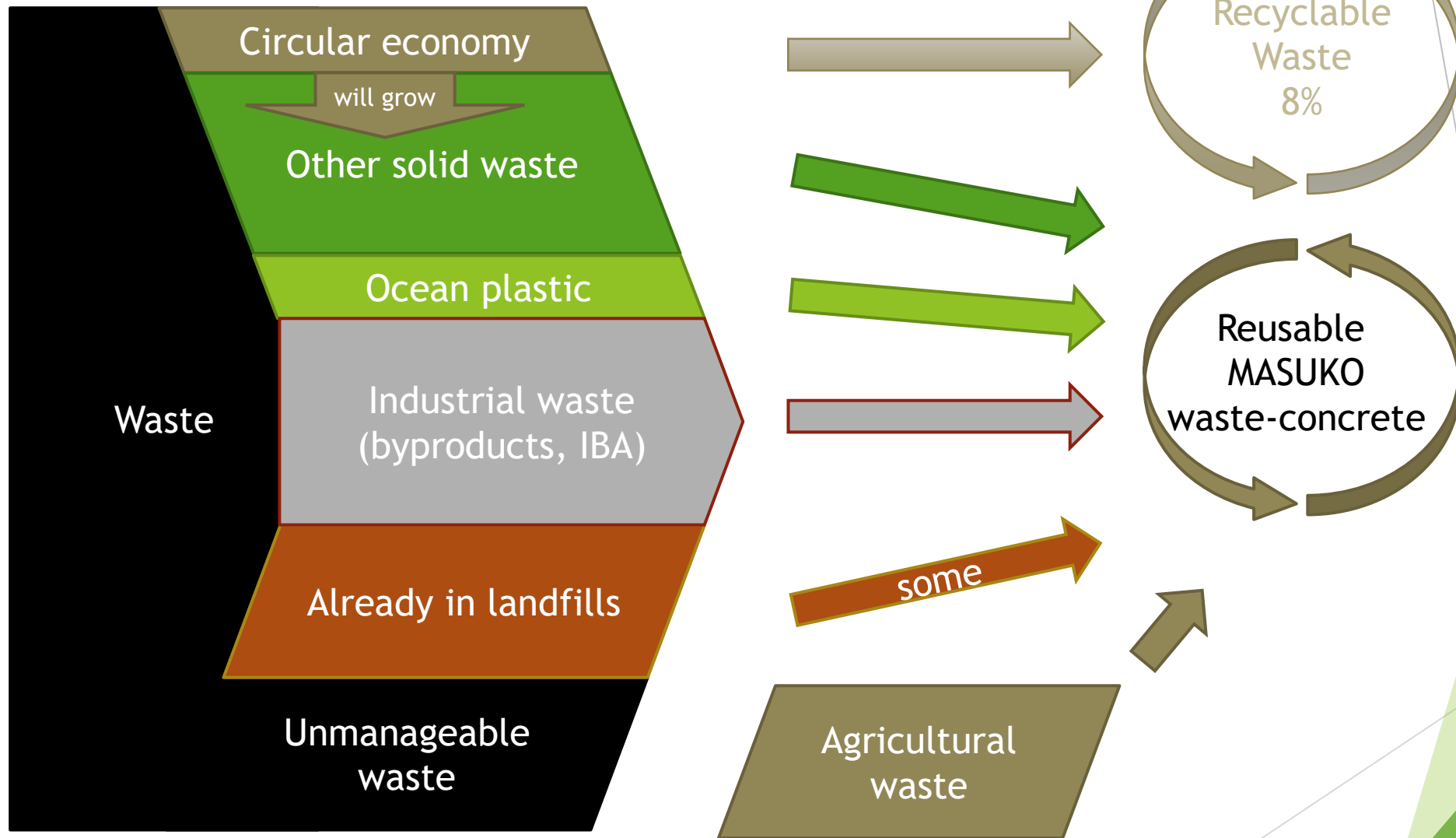
11.6 By 2030, reduce the adverse per capita environmental impact of cities, including by paying special attention to air quality and municipal and **other waste management**

14.1 By 2025, prevent and significantly **reduce marine pollution** of all kinds, in particular from land-based activities, including **marine debris** and nutrient pollution

<https://sdgs.un.org/goals>



Makes MOST Solid Waste Reusable



We work with **EVERYTHING** others cannot even touch!

Highway Construction Layers



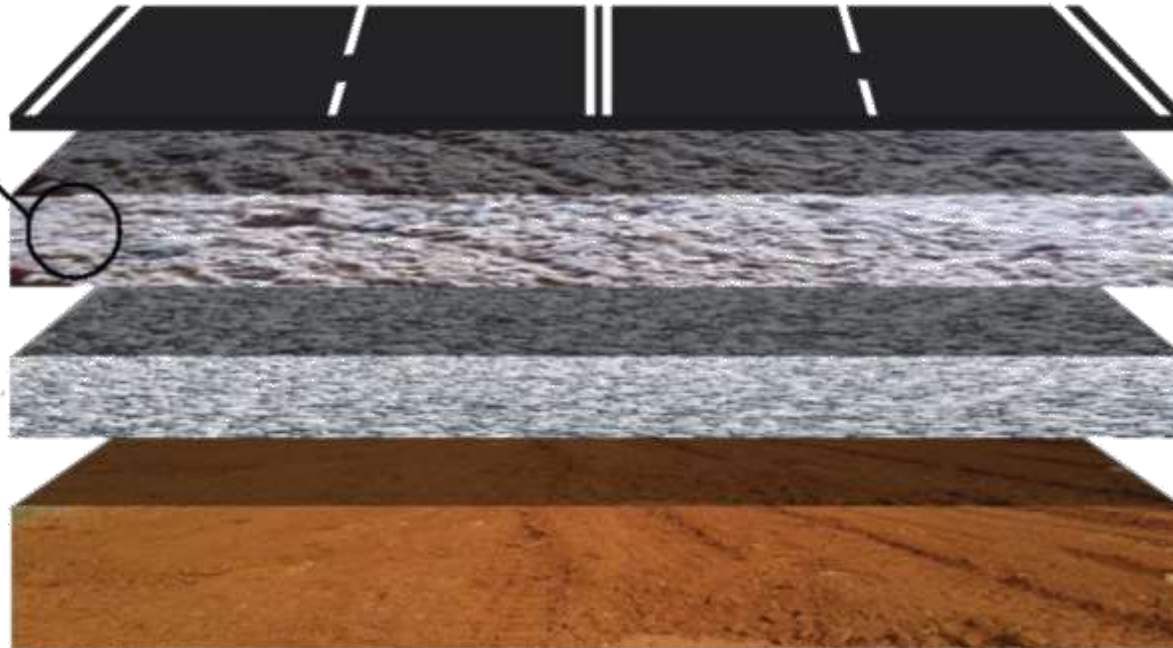
MASUKO - mixed plastic waste concrete

asphalt

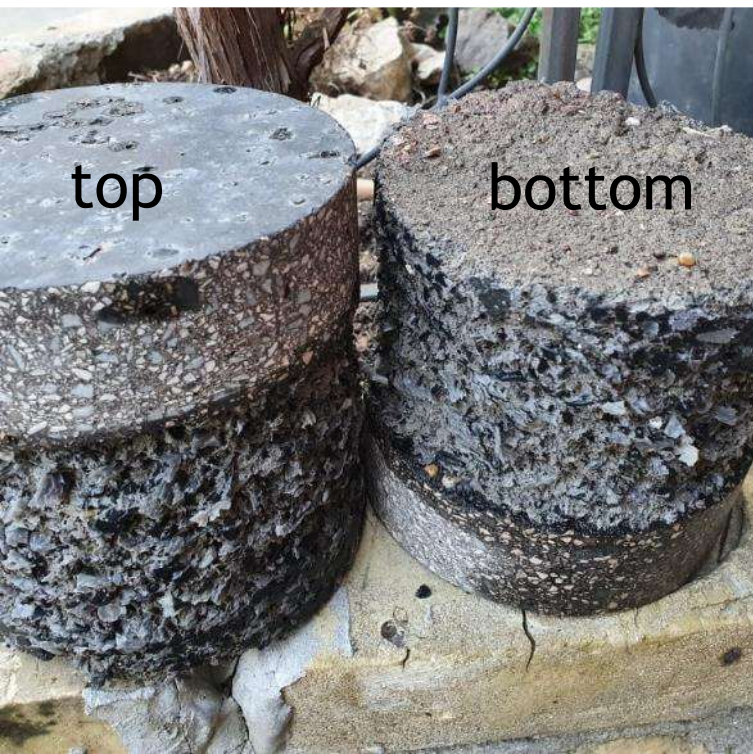
MASUKO - plastic concrete

gravel bed

compressed soil



4m wide x 20cm high x 1km long = 400 tons

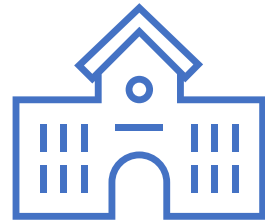


Case Study: 2021 Plans in Hungary EU

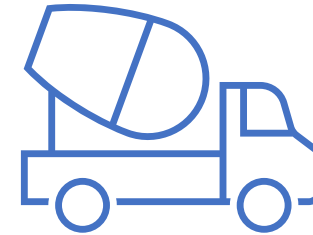
population 10M, area 93.000 km²



10% own market
conversion in 2021
= **200.000 m³**
waste concrete sales

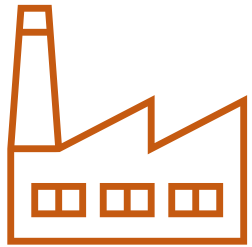


Savings for gov't,
160.000 tons
of waste disposed

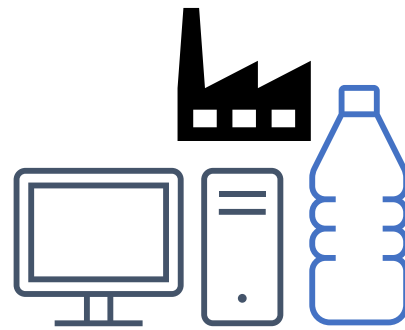


€5M savings
for our partner
companies

Annual ASEAN plant economics



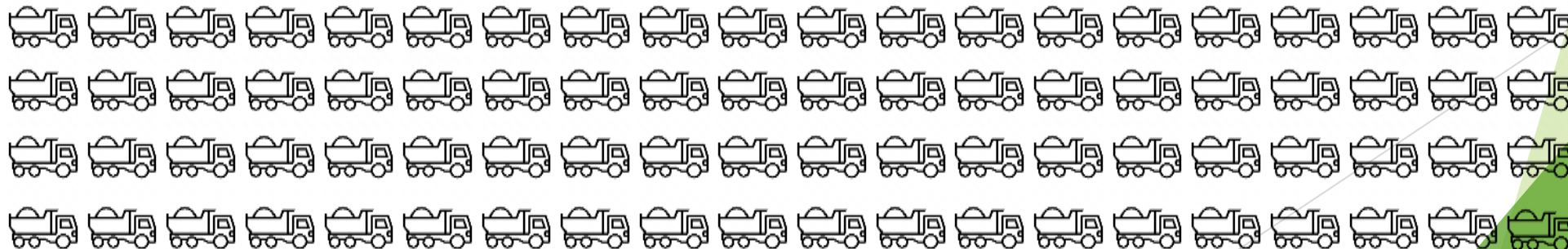
2.400.000 kg
MASUKO powder
production / year
1 line, 1 shift
Sold: \$35 / 5kgs



384.000 tons
plastic waste used



160 kms toll road
built per year



MASUKO Team

30 years construction experience

100 years of company combined management experience

2 Babson MBAs

2 EU Lawyers

- ▶ Károly Bus (inventor, CTO)
- ▶ László Szieben, JD (angel investor, CEO)
- ▶ Sándor Balogh, JD (marketing manager)
- ▶ Krisztián Méhes, MBA (ASEAN, CEO)
- ▶ Steven Angga-Prana, MBA (Indonesia, CEO)
- ▶ Anam Mahmud (Indonesia, COO)
- ▶ Mixing and legal team



To do now

- ▶ Identify waste types that cause problems locally in high volume or cost
- ▶ Shred it and mix it
- ▶ Make specific recipe and test cubes
- ▶ Build as usually

Contact US

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Use unusable waste to build infrastructure!

MASUKO



concretely anything

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9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE



9.4

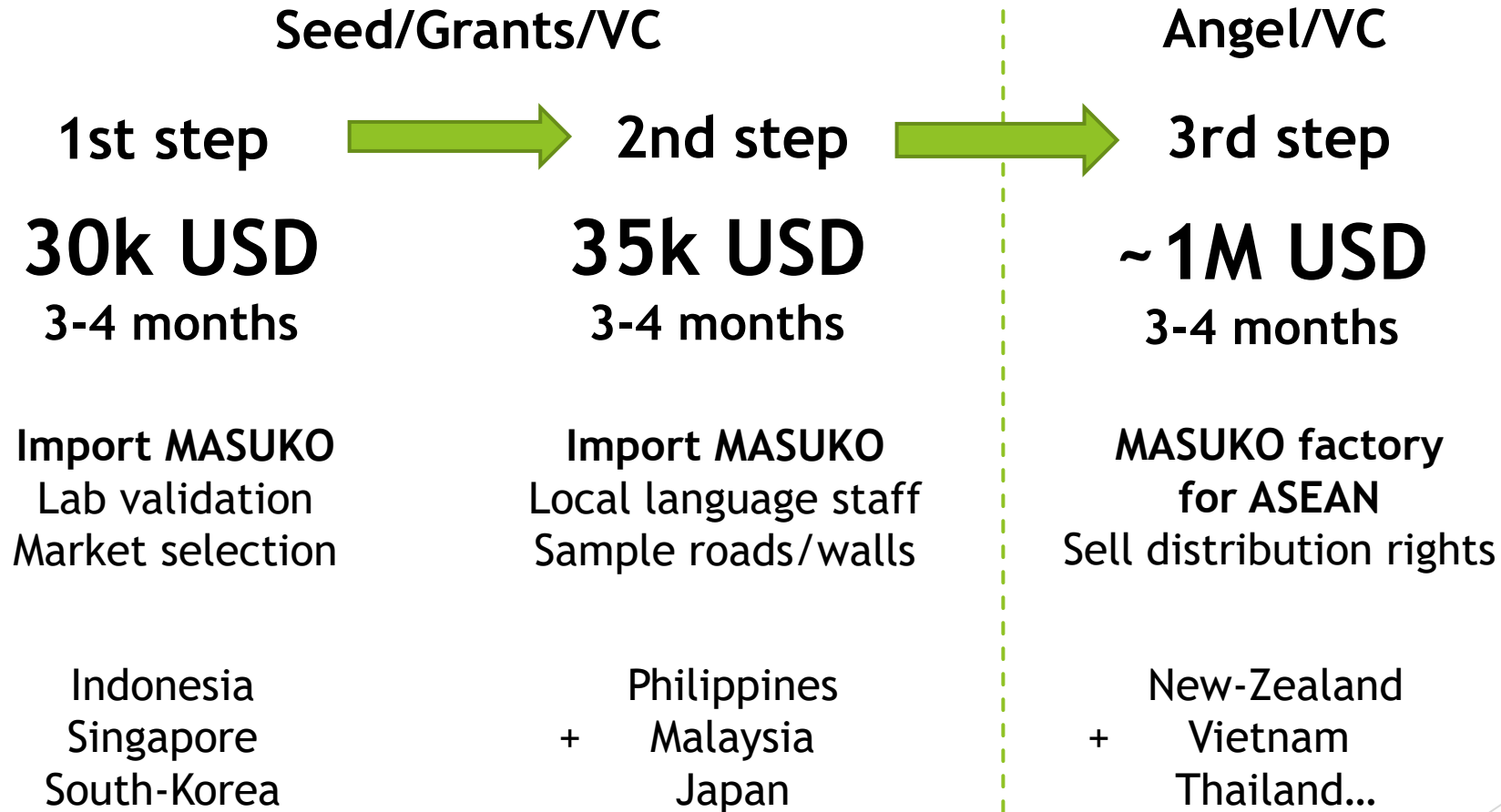
Appendix



Milestones

- ✓ 1990-2015 - Initial research, heat resistance and insulation lab tests
- ✓ 2015 - **First angel investor**
- ✓ 2015-2018 - **Patent filed and awarded** - €400k spent on R&D and patent
- ✓ 2019 - Invited to Circular Economy Conf., Singapore as EU delegation
- ✓ 2020 - Hungarian government testing started
 - ✓ Pavement building 1x - **project value €15k**
 - ✓ Highway base building 2x - **project value €200k**
- ✓ 2020 - Selected into South-Korean **Impact Collective Camp**
- ✓ 2020 - **Mass production ready** for road construction,
Global contract signing with a €13bln company by 31/Dec/2020

Regional Start-up Investment Target



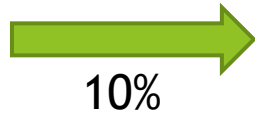
Full operation potential within 1 year



Ownership Structure

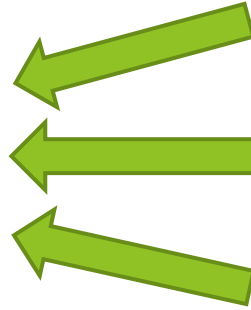
MASUKO
GLOBAL LLC.

Hungary
Owns global patent
and utility rights,
and produces
MASUKO powder



MASUKO
ASEAN

Singapore Llc
Owns utility rights
Has rights to build
MASUKO powder plant



MAKropa Ltd.
Hungary

PT Daya Radar
Utama, Indonesia

VC investors



Indonesia
Exclusive MASUKO
powder manufacturer
for the Asia region

M INDO

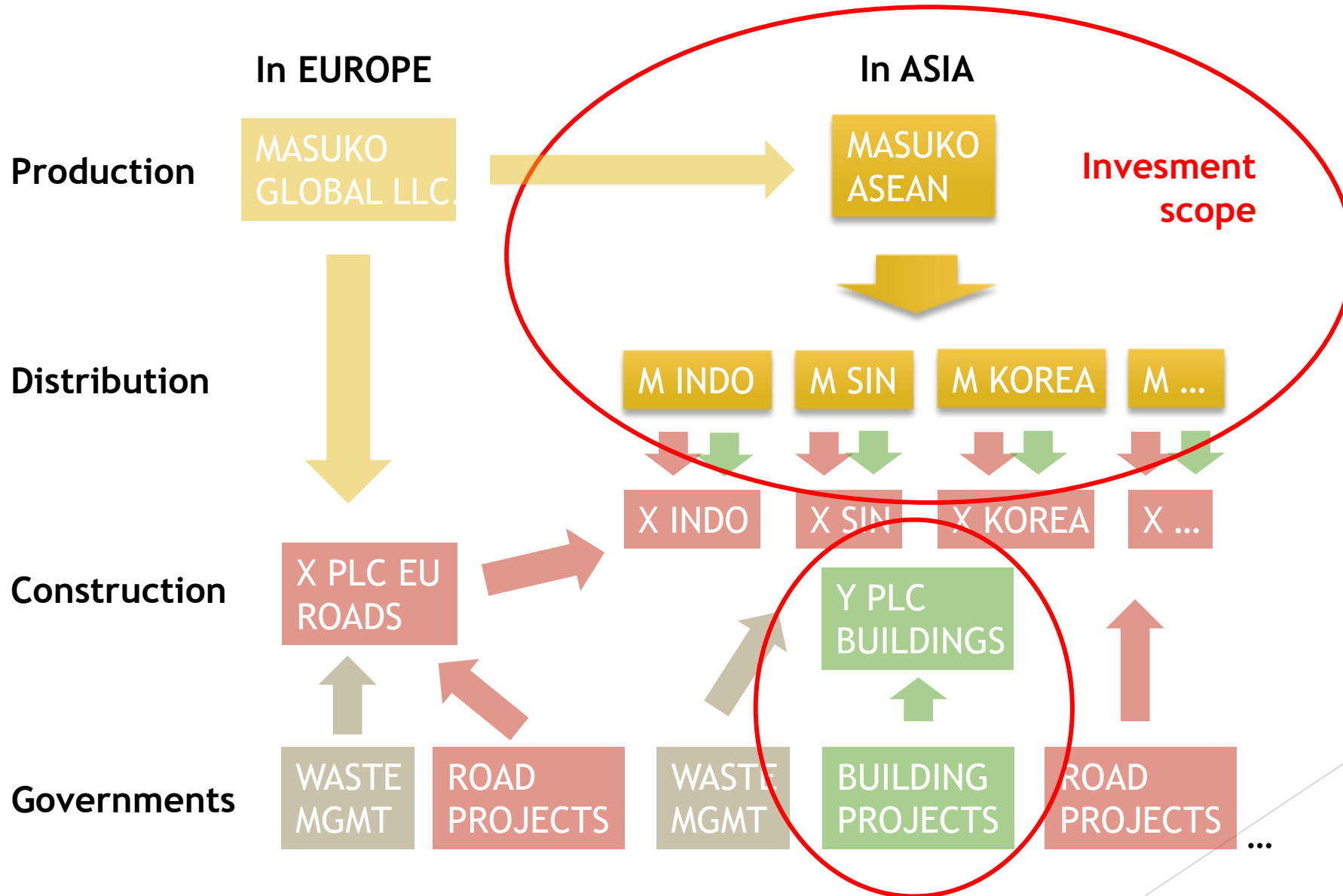
M JAPAN

M KOREA

M ...

Regional
National distribution
companies

Offer / Stakeholders



Investment goes into setting up ASEAN utilization of MASUKO patent (red circles). First, we build local representation, and connection to local construction companies and governments and later ASEAN manufacturing plant.

EU road building contract between MASUKO Global and X Plc would bring business to ASEAN producer company, too.

Scope of investment: manufacturing and distribution companies for the whole region.