

# Coffee Industry 4.0 → 4.All



Countries that exported the highest \$ value worth of coffee during 2018:

1. Brazil: US\$4.4 billion (14.1% of total coffee exports)
2. Vietnam: \$3.3 billion (10.5%)
3. **Germany: \$2.5 billion (8.2%)**
4. **Switzerland: \$2.4 billion (7.6%)**
5. Colombia: \$2.3 billion (7.5%)
6. **Italy: \$1.7 billion (5.4%)**
7. **France: \$1.2 billion (3.7%)**

**Small scale Kenyan farmer** produces about 200 kgs per year, sells for <\$1 per kg of cherry

7g to make an espresso - \$2-6



# Data requirements

Plantation/cultivation area: farmers, soil, weather...

Shipment of containers/bags

Green coffee silos: Evaluation by CPUs

Production planning using ERP / SAP

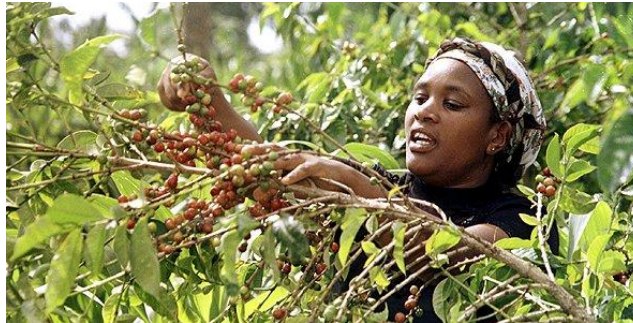
Roasted coffee products

Certified coffees (organic, fair trade...)

Maintenance / spare parts warehouses and service

Logistics / transport

Coffee shops



# Swedish Buyer to the CEO of a Kenyan coffee factory:

“We want to buy organic coffee from farmers who give a decent salary to women”

**1** NO  
POVERTY



**5** GENDER  
EQUALITY



# industry 4.All

## Partnership: TOP, GDE & GoIP (Kenya)

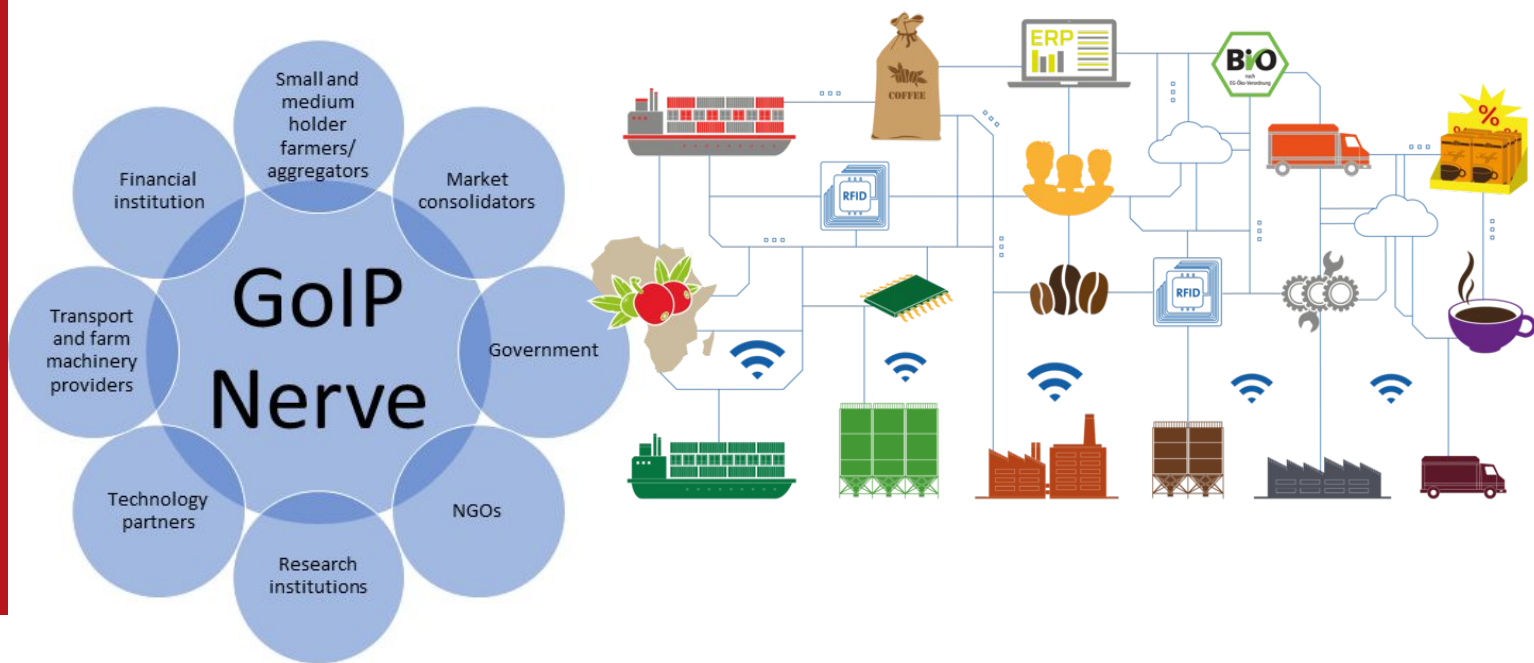
### Creation of local/intl ecosystems

#### Data Integration – DEMS AGENT

Foreign  
Purchasers

Restaurant/  
hotels

D  
E  
M  
S  
-  
A  
G  
E  
N  
T





Recycle → Upcycle



**TOP<sup>3</sup>**  
TECHNOLOGY OF PEACE



In London, wasted coffee grounds are currently being used to power the city's buses

it is possible to multiply by more than 10 the production yield and to sell for \$2-4 instead of <\$1. In theory, the revenues can be multiplied by a factor of 10.

Larger income and use of permaculture for the creation of organic fertilizers for developing additional ways for food security.

Group of women will be working in the processing of coffee, Mpese report & ESD training will allow ways to reach gender equality.

Specific emphasis on the definition of the values of each partner of the ecosystem will allow more transparency thus decent work & economic growth.

Using organic fertilizers instead of chemicals and applying permaculture principles will help reduce the dangers of global warming.

Permaculture principles will allow to improve terrestrial ecosystems & sustainably manage forests

GDE

By moving the value back to the locals, the existing inequality of the value chain will be reduced.

Coffee processing requires much water  
Specific efforts will be made for recycling water & ensuring clean water.



# Thank you

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