



AQUAPIONRS

DESIGNING SUSTAINABLE FOOD SYSTEMS

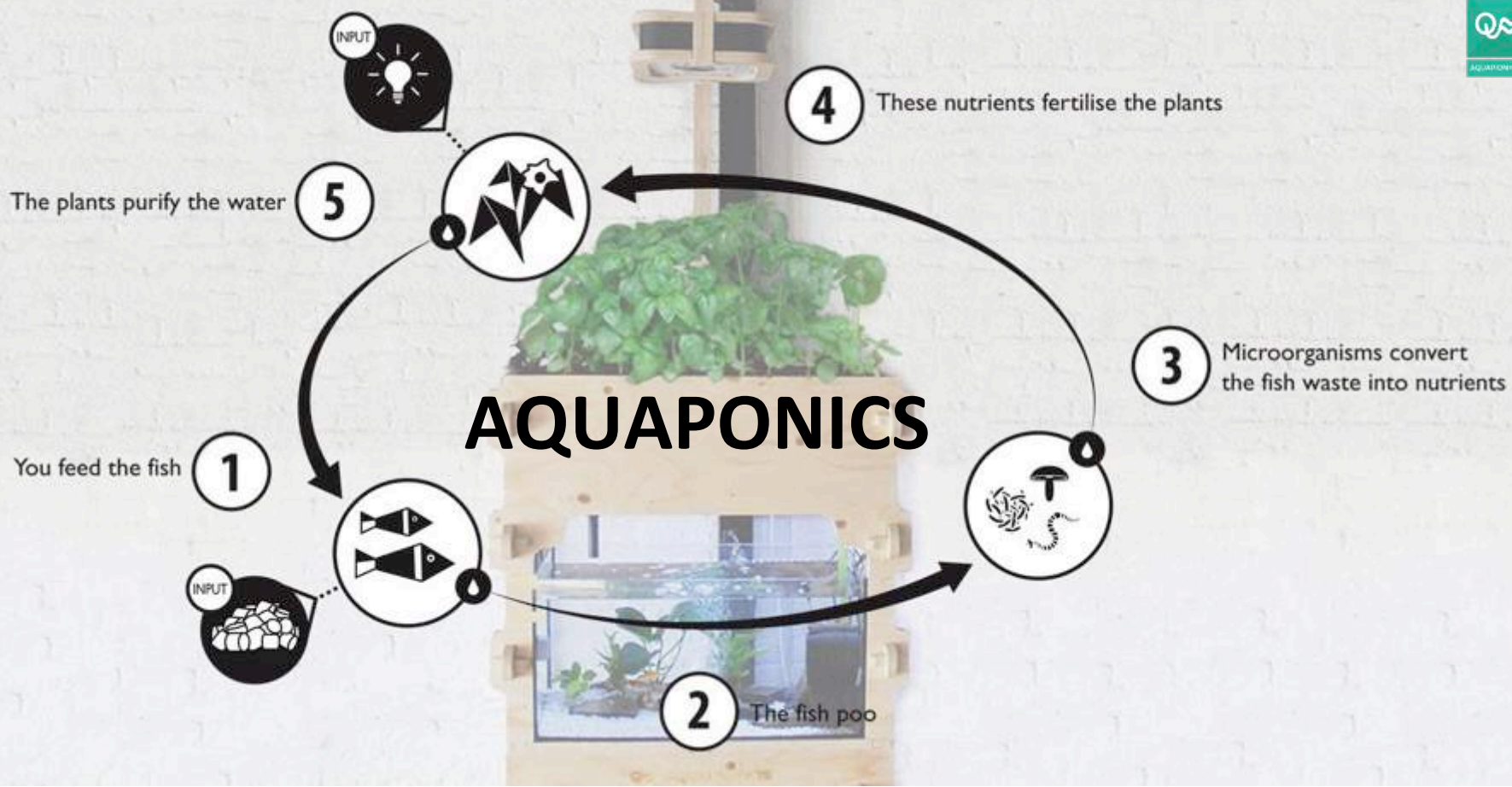


FISH POO



VEGGIES





NATURAL ECOSYSTEM THAT PRODUCES FISH AND PLANTS AT SAME TIME

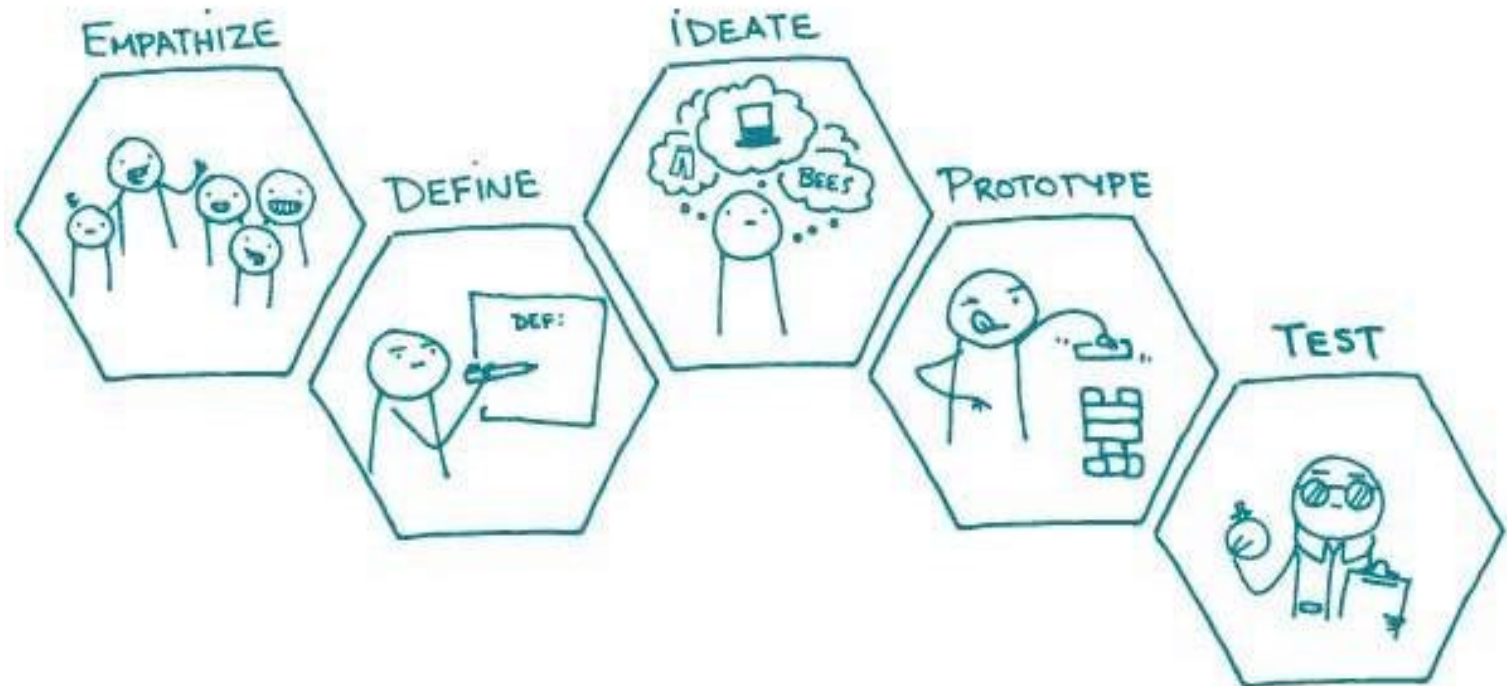
90%
less water

2 x
faster

100%
organic



PROCESS OF THE PROJECT CREATION



Ten technologies which could change our lives

Potential impacts and
policy implications



IN-DEPTH ANALYSIS

EPRS | European Parliamentary Research Service

Authors: Lieve Van Woensel and Geoff Archer

Scientific Foresight (STOA) Unit

EN



June'16



Kit Aquapioneers

Guillaume & Loic
start
Aquapioneers

June' 16

Nov' 16



30m2 greenhouse

Kit
Aquapioneers

Guillaume & Loic
start
Aquapioneers

June' 16

Nov' 16

Feb'17






Crowdfunding

Aquapioneers: print your aquaponics ecosystem

Start growing your own food with the first open source aquaponics kit designed for urban farming 🌱🐟🌿

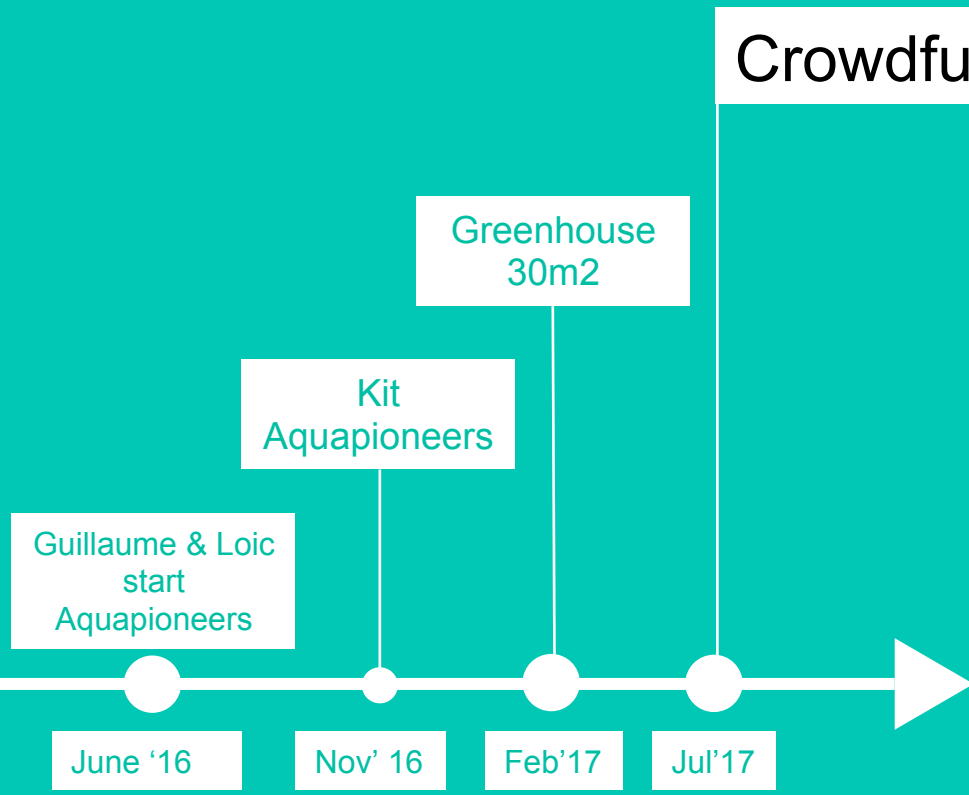
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€30,121
200% committed on a goal of €15,000

Successfully FUNDED

Funded on the 07/15/2017



26 systems

Crowdfunding

Greenhouse
30m²

Kit
Aquapioneers

Guillaume & Loic
start
Aquapioneers

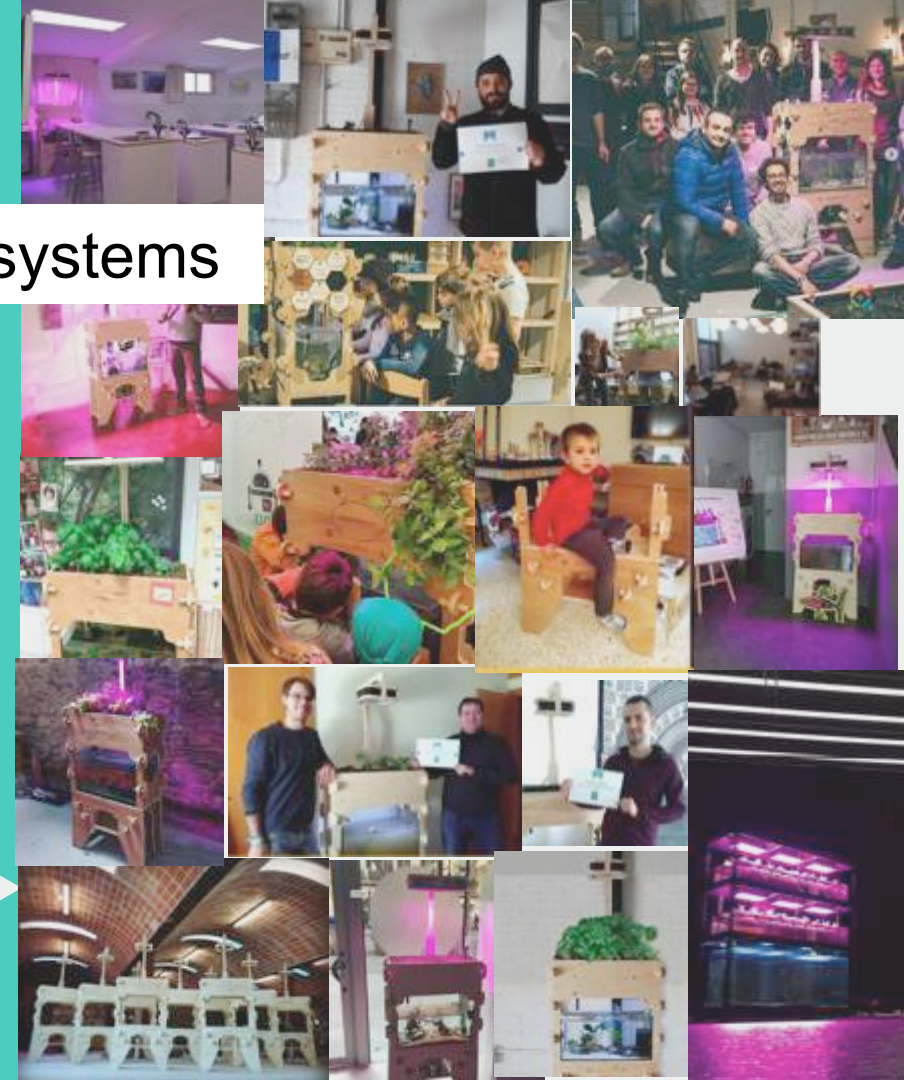
June'16

Nov'17

Feb'17

Jul'17

May'18



3 CUSTOMER SEGMENTS



SUSTAINABLE FOOD



EDUCATION



WELLBEING

BUSINESS MODEL



SUSTAINABLE FOOD



EDUCATION



WELLBEING



DESIGN



MAINTENANCE



WORKSHOPS



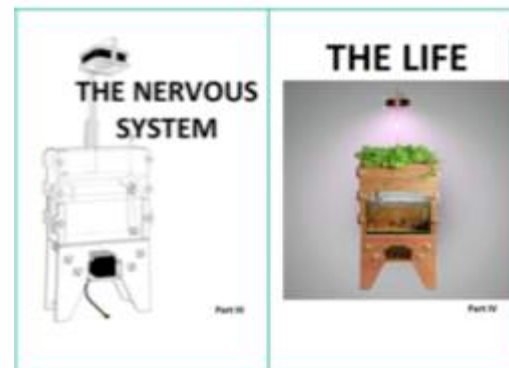
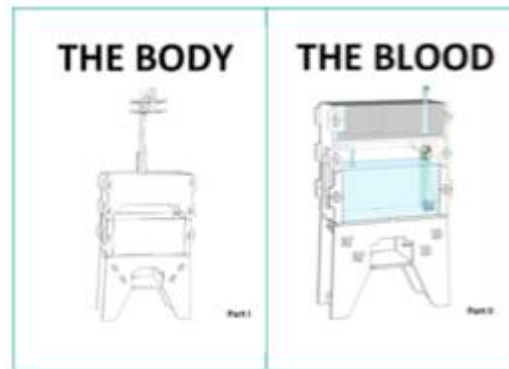
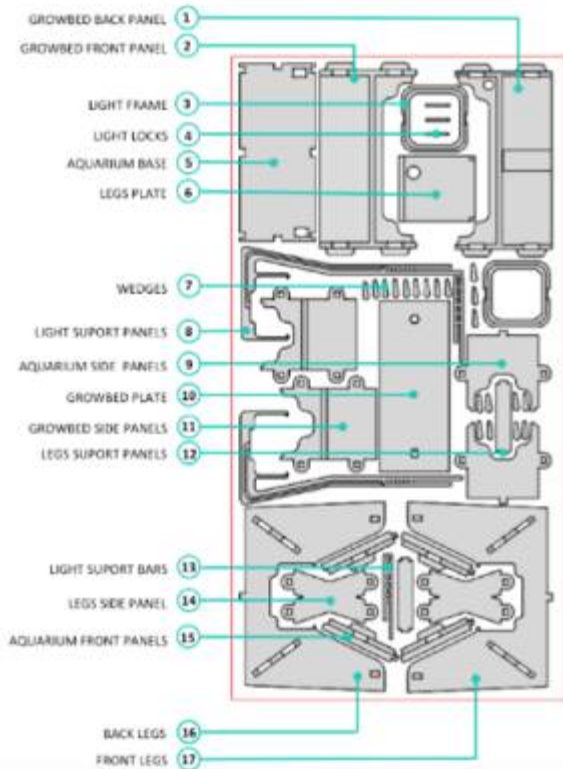
CONSULTANCY

TECHNOLOGY PERSPECTIVE OF THE PROJECT



OPEN MANUFACTURING >

OPEN SOURCE DESIGN





OPEN MANUFACTURING > DIGITAL FABRICATION



OPEN MANUFACTURING > DIGITAL FABRICATION



 **GREENLAB**



FAB LAB LUXEMBOURG 




by the electric factory

SUSTAINABLE FOOD SYSTEM

CIRCULAR ECONOMY

0
waste



0
pesticides
synthetic
fertilizers

SUSTAINABLE FOOD SYSTEM

ADAPTED TO CITIES

Fish + Vegetables

SUSTAINABLE FOOD SYSTEM

RESOURCE EFFICIENT



90%
less water

100%
renewable
energy

SUSTAINABLE FOOD SYSTEM

PRODUCTIVITY

500%
less
space use

60%
shorter
production cycles

SOCIAL OUTPUTS

ALREADY ACHIEVED

15 downloads
3 Fab Labs
4 countries

Open
source

4 workshops
2 active schools
3000 kids

Education

8 workshops
24 kits
2 micro-farms
5000 people

Environmental Awareness

SOCIAL OUTPUTS

EXPECTED - 2019

100 downloads
10 Fab Labs
10 countries

Open source

25 workshops
6 active schools
1500 students

Education

30 workshops
50 kits
5 micro-farms
10 000 people

Environmental Awareness



Thank you !