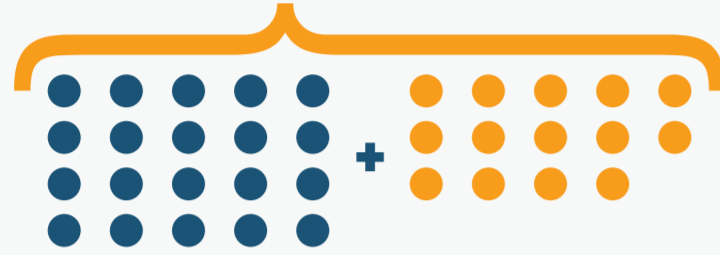# The digitization of food

9 BILLION

IS THE ESTIMATE NUMBER OF PEOPLE ON EARTH IN

YEAR 2063

TO MEET THE NEEDS OF THIS NEW POPULATION, WE WILL NEED TO
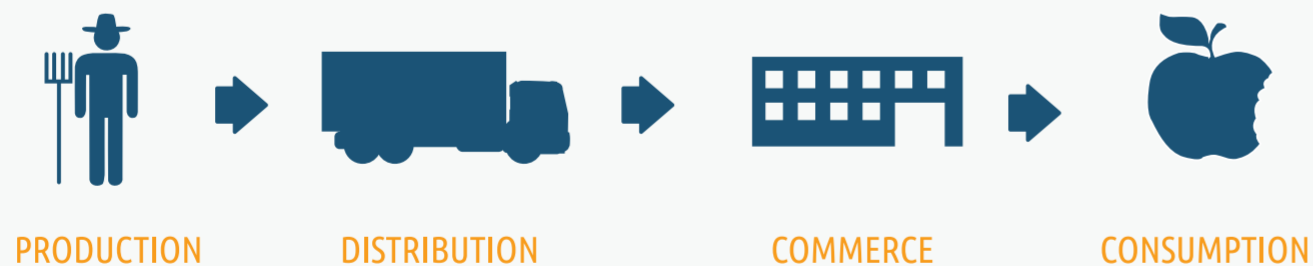
INCREASE FOOD PRODUCTION BY 70%

BECAUSE OF POLLUTION AND THE GROWING POPULATION, THE PERCENTAGE PER PERSON OF
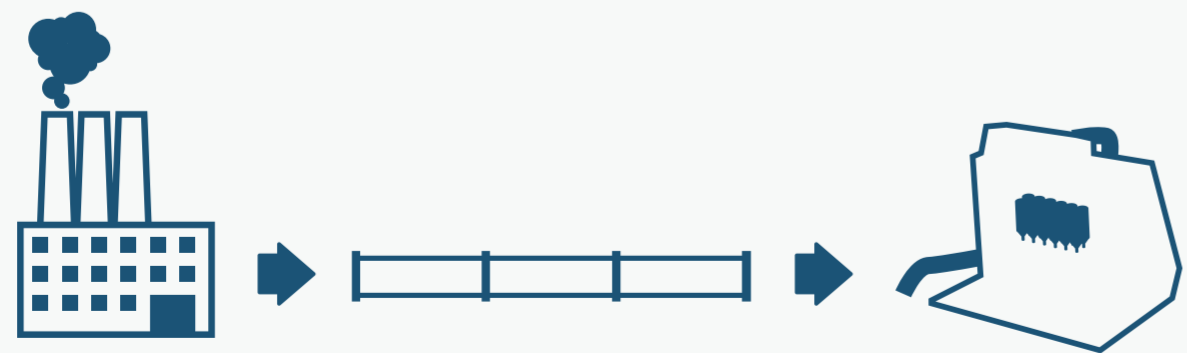
ARABLE LAND COULD DECREASE DRASTICALLY

A SOLUTION NEEDS TO BE FOUND IN ORDER TO MEET THE DEMAND FOR FOOD

AS

AgriSynth
Montréal

MAÎTRE CHEZ-SOI

AgriSynth Montreal provides residents with a reliable supply of energy. With programs to encourage our customers to make efficient use of our supplied product.

PRODUCTION → DISTRIBUTION → COMMERCE → CONSUMPTION

Food supply in 2013

SYNTHESIS → DISTRIBUTION → CONSUMPTION

Food supply in 2063

Food is an undeniable aspect that links all human beings. Regardless of geographical location, culture, race, gender, all humans must eat to survive. Half a century from now, this fact will still be true. Climate change, depletion of fossil fuel, technological and scientific advancement, will redefine the human relationship toward food. The design of urban centers will evolve, mutate, and adapt according to the primary need of food product consumption.

It is possible to imagine a future where the nature, form, production and distribution of food will change. The scientific manipulation of DNA and the in vitro process leaves the door open for synthetic production of nutrients. In a world where we have exhausted important natural resources, and where an oil shortage restricts the import of food for the inhabitants of Montreal, it is necessary to find a solution to the production and distribution of foodstuffs.
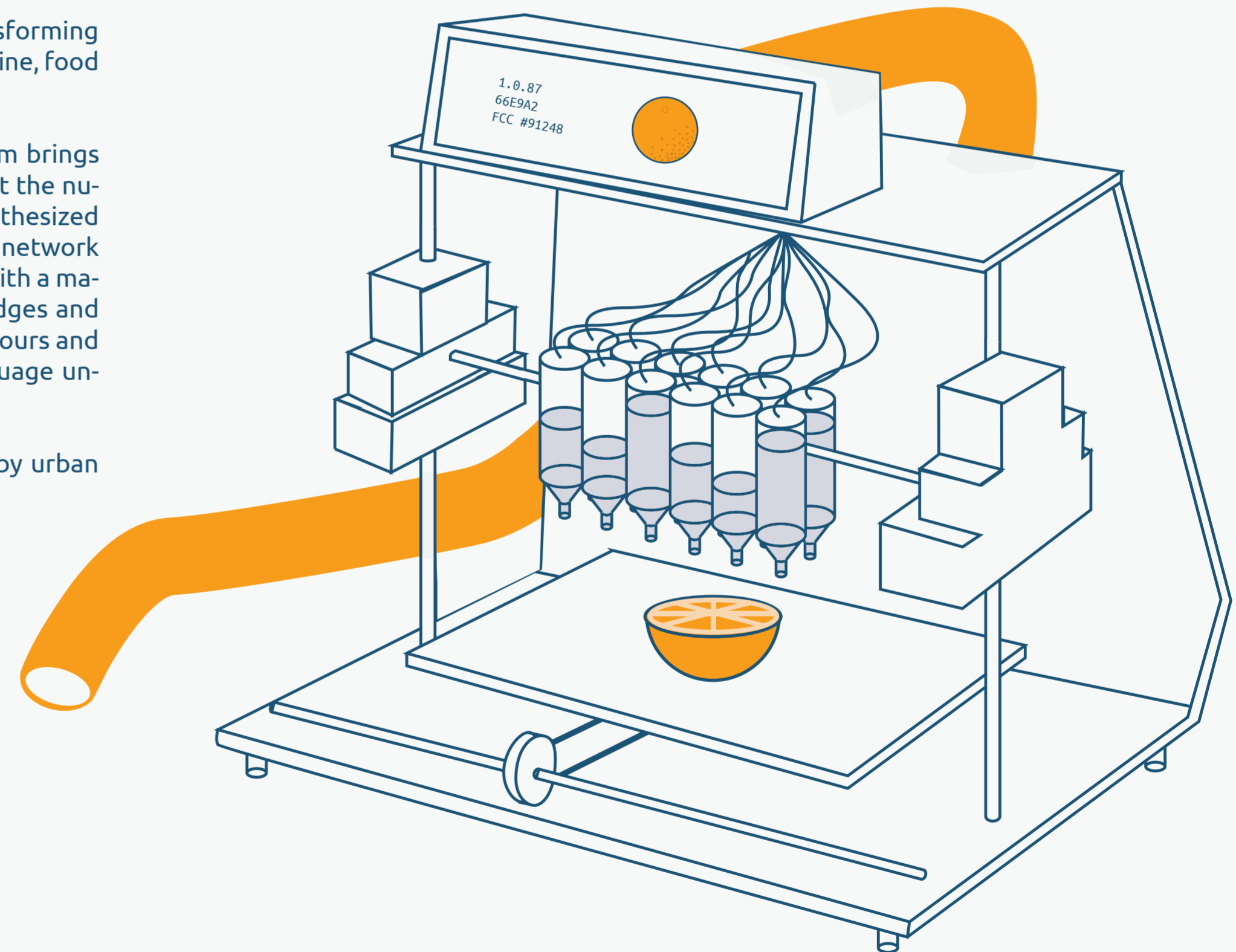
Through the automation of built environments is transforming the perception of the human body as a machine. As machine, food would be relayed and marketed solely as a fuel.

Parallel to the aqueduct network, the AgriSynth system brings the nutriment , in a liquid form, into the houses to meet the nutritional needs of the local residents. The product, synthesized in local manufacturing centres, is distributed through a network of pipes. Although edible as it is, homes are equipped with a machine for the processing of the product. Flavour cartridges and firmware upgrades gives the liquid different forms, flavours and textures. Food becomes codes, recipes are now a language understood only by machines.

We are witnessing the digitization of food supported by urban infrastructures

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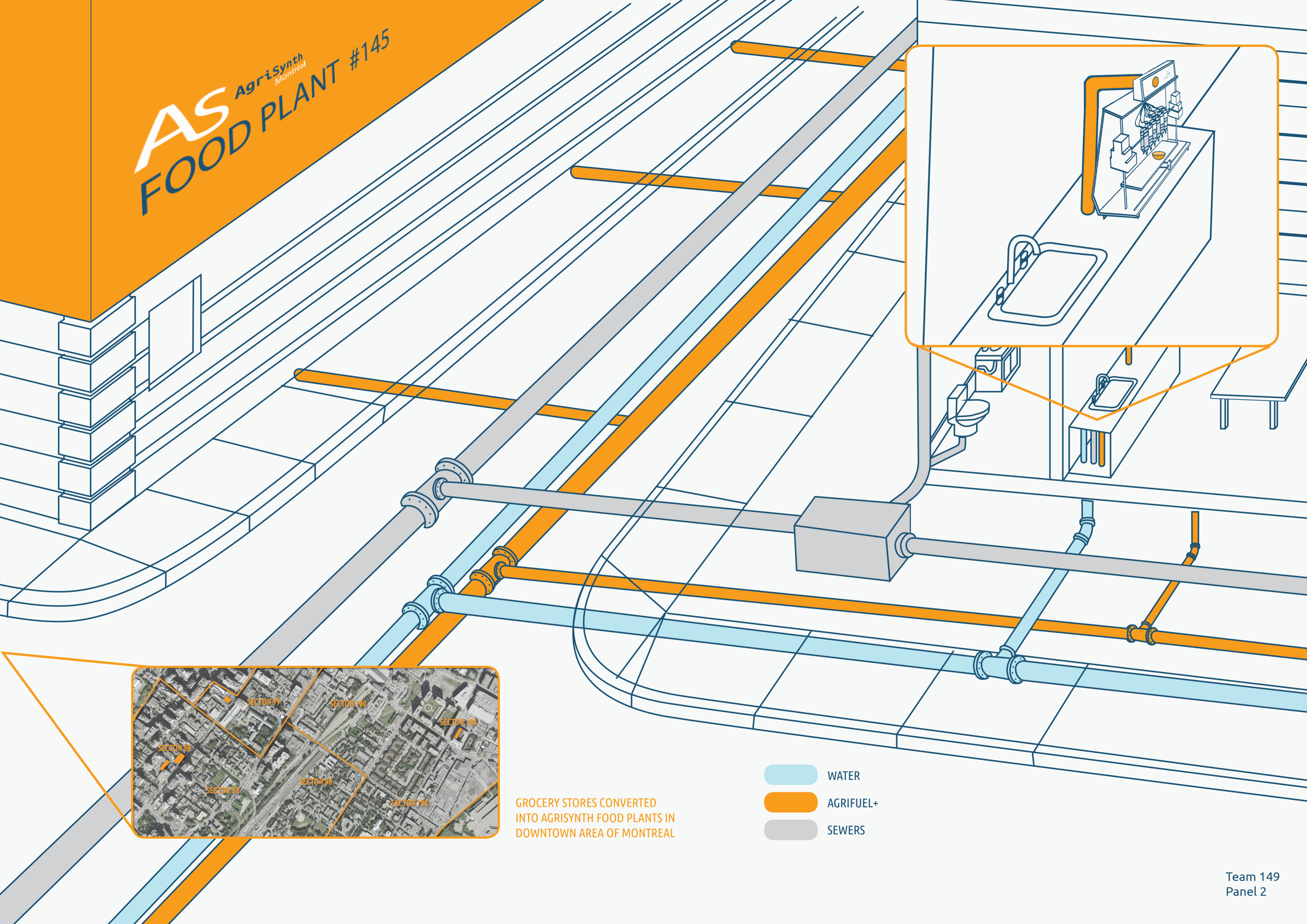
FIRMWARE UPGRADE & FLAVOR CARTRIDGE

There are no solutions here, or even answers, just lots of questions, thoughts, ideas and possibilities, all expressed through the language of design. They probe our beliefs and values, challenge our assumptions and encourage us to imagine how what we call 'reality' could be different. They help us see that the way things are now is just one possibility, and not necessarily the best one.

– Dunne & Raby, What if_

Team 149
Panel 1

AS AgriSynth Montréal
FOOD PLANT #145

SECTOR 99
SECTOR 100
SECTOR 100
SECTOR 98
SECTOR 98
SECTOR 98
SECTOR 100

GROCERY STORES CONVERTED
INTO AGRISYNTH FOOD PLANTS IN
DOWNTOWN AREA OF MONTREAL

WATER

AGRIFUEL+

SEWERS

Team 149
Panel 2