

Association for

# **Vertical Farming**

**"Taking Urban Agriculture to New** Heights around the World". The impact of Vertical Farming

It's clear that agriculture, done right, is the best means the world has today to simultaneously tackle food security, poverty and environmental degradation!" Irene Rosenfeld



## Global and local Challenges

 Continuing population growth and urbanization 2.5 Billion more by 2050
Most of this in Asia and Africa
Increase of global food production of 70 percent by 2050, an additional quantity of nearly 1 billion tons of cereals and 200 million tons of meat.

••• We have again a rising hunger problem





HOW are we going to sustainably produce enough food in the future ? HOW do we feed our citizens?

## Why Vertical Farming?

- Climate change
- Urbanization
- Population Growth
- Resource finiteness
- Ecological destruction
- Unsustainable agriculture





### Urban Agriculture for a Better Livelihood

#### Facts

FAO: 15 to 20 percent of the world's food is produced by about 800 Mio people in cities.

- ⊷Growing urban poverty
- ⊷Need for safe healthy food

#### **Problems**

 In many countries, urban agriculture is still informal and illegal
Unsafe water

 Uncontrolled contamination

### Indoor/Vertical Farming

Soilless – no arable land Pestizide free Independence from weather 98% less water 60 % less nutrients Safe healthy produce





### PASONA O2 – JAPAN







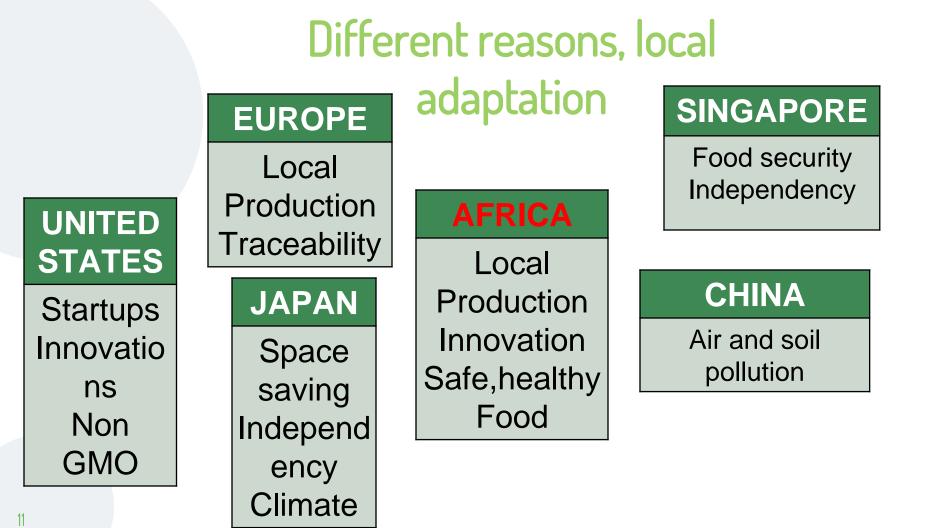


### ••• How many VF?

# What kind of products?

- Japan, with more than **200** plant factories
- Taiwan 120 (2015)
- China 20+
- North America approx 50+
- Europe 40 +

Salads, vegetables, herbs, berries, microgreens, peas, radish, melons, tomatoes, cucumbers, eggplants, figs, mushrooms, rice field, insects etc



Schweizerische Eidgenossenschaft Confédération suisse Confederazione Svizzera Confederaziun svizra



Swiss Agency for Development and Cooperation SDC













I hanks! ANY QUESTIONS? You can find me at www.vertical-farming.net czl@vertical-farming.net