



**INFINITEACRES**

# THE GLOBAL CHALLENGES

## GLOBAL TRENDS



GROWING POPULATION



URBANIZATION



IMPORTS & FOOD MILES



WANING RESOURCES



FOOD SAFETY

## CONSUMER TRENDS



CLEAN FOOD



SUPERFOODS



HEALTHY SNACKING

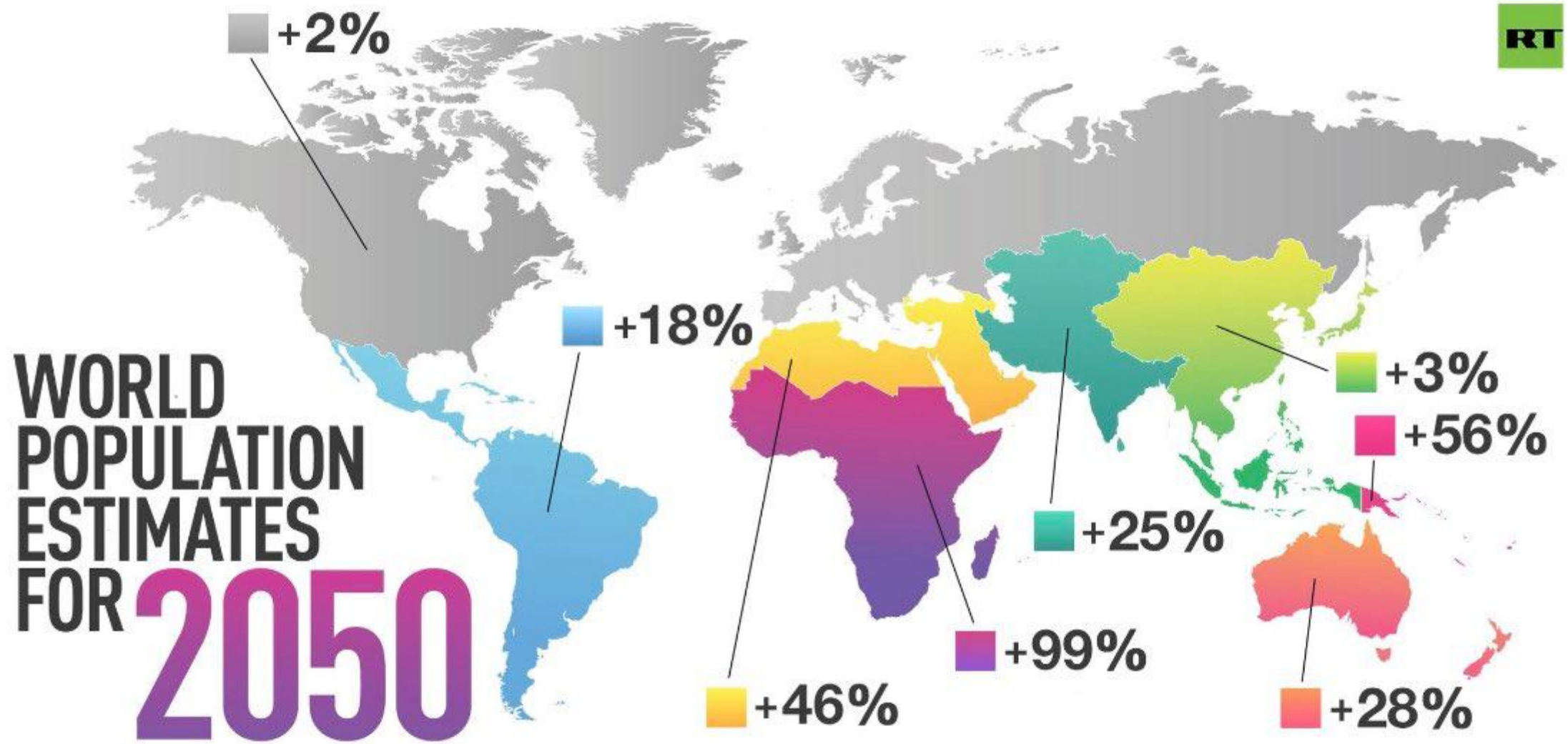


SUSTAINABILITY

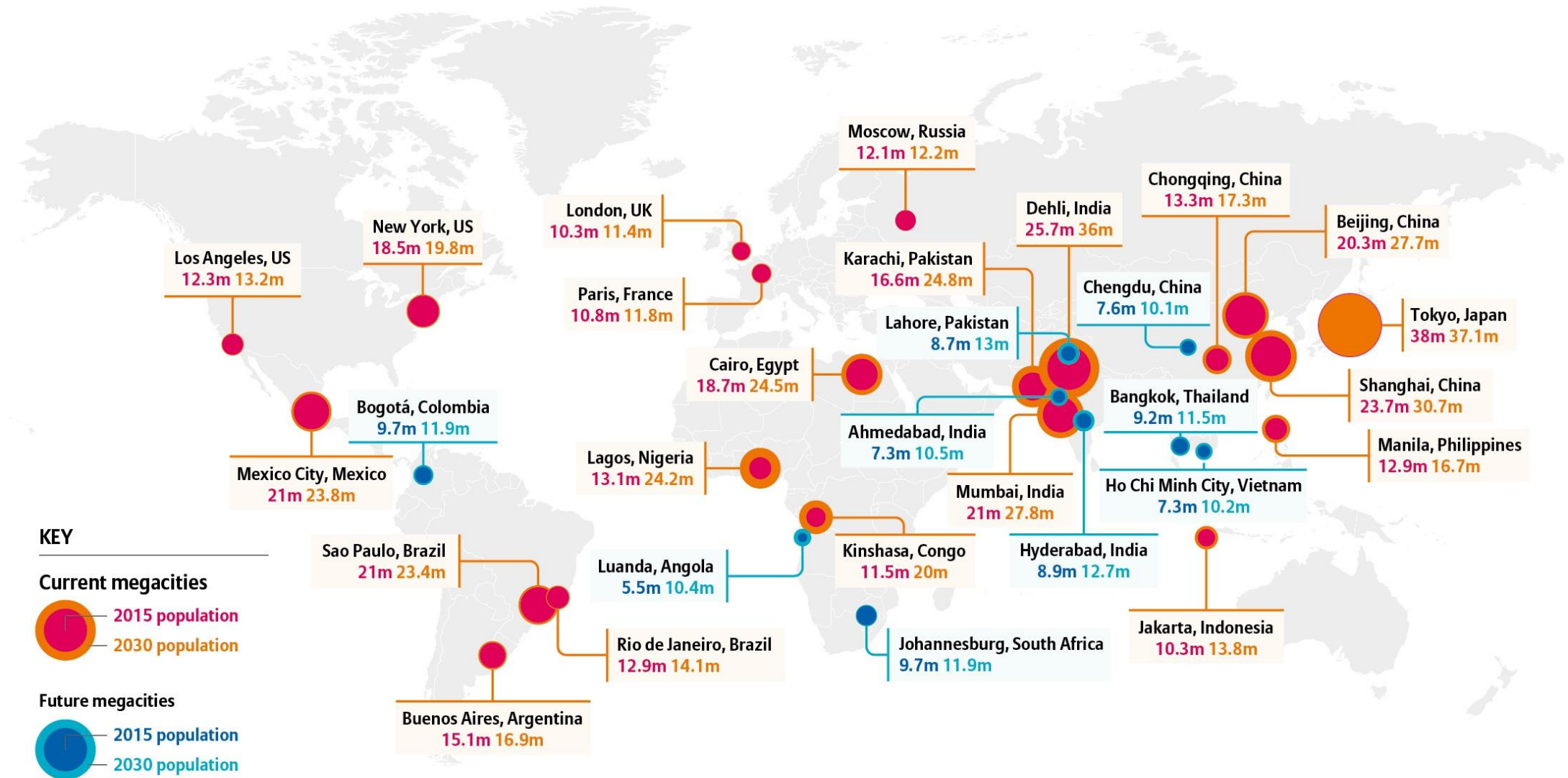


LOCAL FOOD

# 2050 POPULATION



# URBANIZATION



Source: World Urbanization Prospects: The 2014 Revision

# FOOD MILES





# Water is too precious to waste

## WATER IS A FINITE PRECIOUS RESOURCE

Although 72% of the Earth's surface is covered with water, **less than 3% of this water is suitable for uses like drinking and irrigation.**

Source : Live Science



# INSECTICIDES & HERBICIDES



# LOCAL PRODUCTION





# SUPERFOODS



# CLIMATE CHANGE

© YAY Media AS/Alamy



# FLOODS IN SPAIN



2+ DAYS

Tesco Iceberg Lettuce Each

Sorry, this product is currently not available.

Delivering the freshest food to your door. Freshness of our products. Find out more



little gem lettuce  
crunchy and refreshing  
by Sainsbury's

### PRODUCT SHORTAGE

Due to limited availability, we are experiencing product shortages across this category. We're working closely with our suppliers to get these items back as quickly as possible.

We sincerely apologize for any inconvenience this may cause.

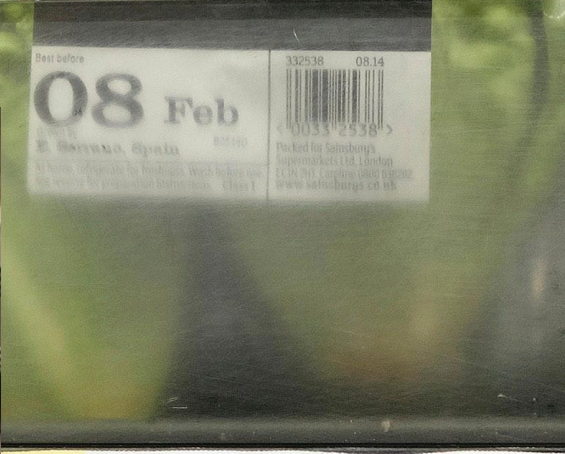
EFFECTIVE DATES: JULY 2 - AUGUST 9



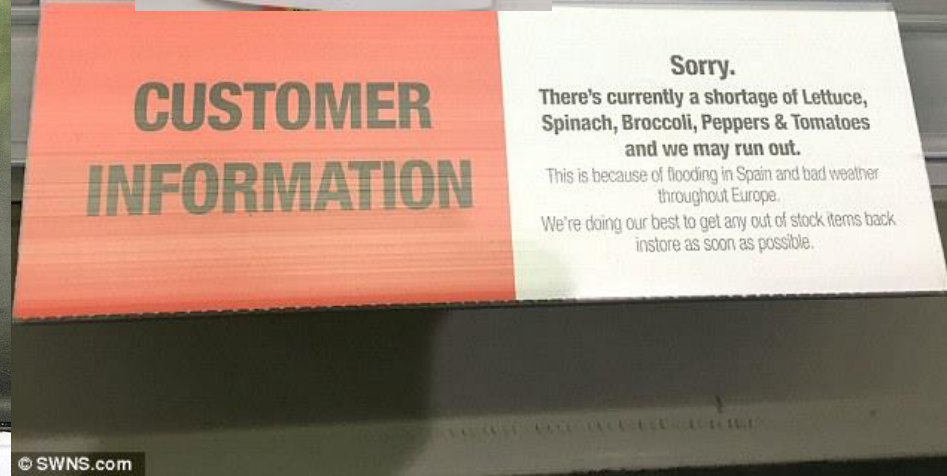
mini cos  
luce  
ny and refreshing  
Sainsbury's



Due to a poor harvest season, we are experiencing shortages on many of our canned vegetable items. We hope to be back in stock on most items by the end of August.



Best before 08 Feb  
332538 08.14  
Packed for Sainsbury's Supermarkets Ltd London  
E1 1R 9JL London U.K. 0200  
www.sainsbury's.co.uk



## CUSTOMER INFORMATION

Sorry. There's currently a shortage of Lettuce, Spinach, Broccoli, Peppers & Tomatoes and we may run out. This is because of flooding in Spain and bad weather throughout Europe. We're doing our best to get any out of stock items back instore as soon as possible.

© SWNS.com


Due to severe flooding in Spain this week we apologise for the low levels of availability on lettuce.

# SHORTAGE

A billboard stands in a desolate, arid landscape. The ground is parched and cracked into large, irregular polygons. Sparse, dry vegetation is scattered across the scene. The billboard is the central focus, displaying a stark message in large, bold letters. The sky is a clear, bright blue, emphasizing the harshness of the environment.

**Food Grows Where Water Flows**

**DROUGHT IN CALIFORNIA**

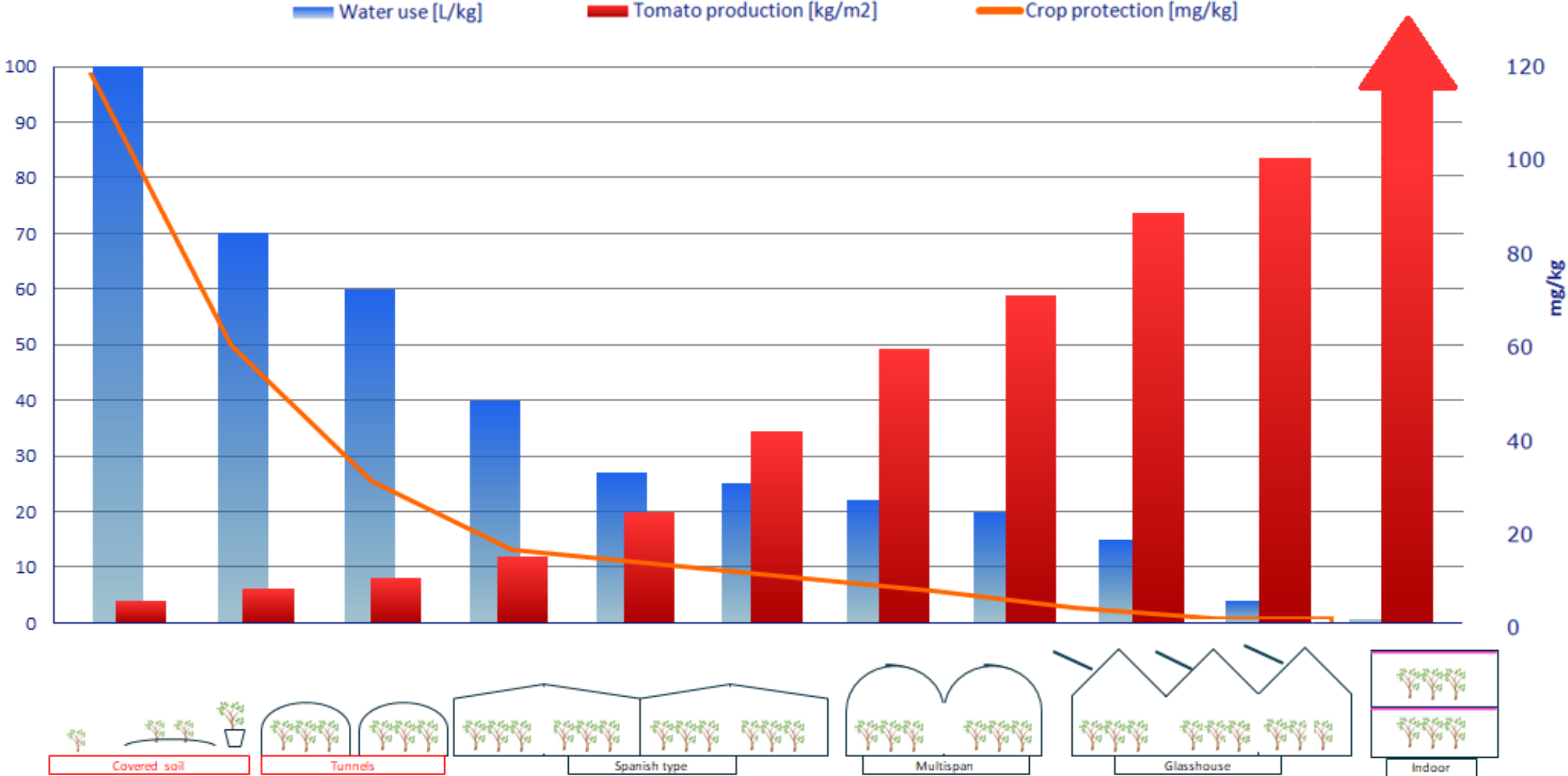
The image shows a large indoor hydroponic grow room. The top half features a close-up of plants growing on a white grid structure. The bottom half shows a long, narrow aisle between rows of plants in white trays, with a central aisle leading towards the back of the room. The lighting is a mix of red and blue, typical for indoor plant growth.

# INDOOR SOLUTIONS

# KEY BENEFITS INDOOR FARMING

- **90% minder watergebruik** dan in een conventionele kas
- **Ready-to-eat!:** Geen insecticide & herbicide
- **Hoge voedselveiligheid:** Geminimaliseerde risico's
- **Geen Food-miles!** Lokaal geproduceerd bij de afzetmarkt
- **Hogere productie** per m<sup>2</sup>
- **Consistentie jaarrond**
- **Maximale controle** niet afhankelijk van klimaat

# SUSTAINABILITY: PRODUCTION, WATER & CROPPROTECTION





# PRODUCT FOCUS INDOOR

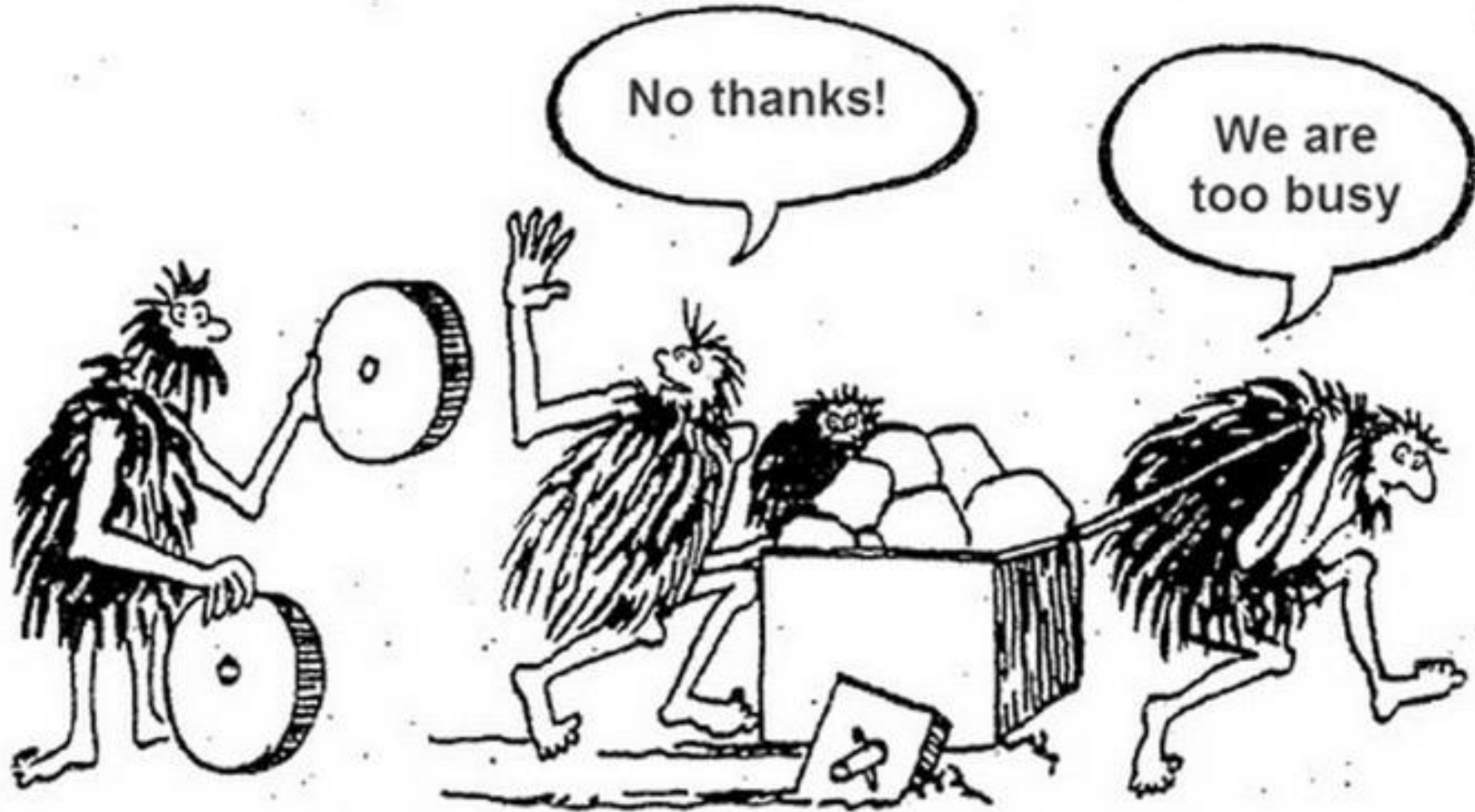


# INDOOR FARMS ANNO 2019

## FARM TYPES

- Research faciliteiten
- One-off faciliteiten
- Niche markten (restaurants & hotels)
- Cannabis
- Start-ups

# BEPERKINGEN -> DUS KANSEN





# IT'S ALL ABOUT THE PLANT

# INDOOR FARMING ECONOMICS

- CAPEX € 1200 - € 3400 per m<sup>2</sup>
- OPEX zeer afhankelijk van energie prijzen, minder FTE
- Product gepositioneerd boven biologisch / organisch
  
- ROI variërend van 4-10 jaar

# LOCAL PRICES



Singapore € 5,00



US Ohio € 4,50

# NEDERLANDSE TUINBOUW SECTOR

- Tuinbouw kennis
- Logistiek
- Duurzaamheid
- Optimale benutting per m2: Efficiëntie
- Kennis- en onderzoeksinstituten
- Veredeling

# INDOOR FARMING CHALLENGES

- Energie efficiëntie techniek
- Veredeling nieuwe rassen
- Artificial Intelligence – autonoom telen
- Biochemie – onderzoek planten op cell niveau
  
- Nederlandse tuinbouw op het gebied van Indoor op de kaart zetten!





# CONTACT

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