#### **WR-1** Water for Food

CTB3300WCx: Introduction to Water and Climate

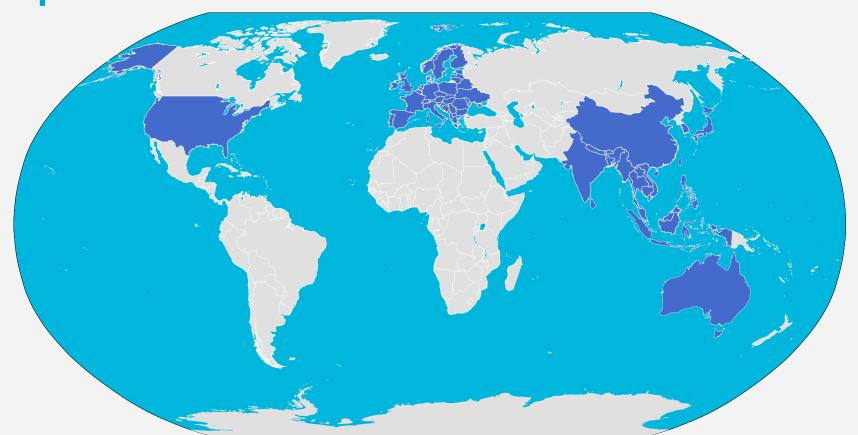
Prof.dr.ir. N.C. van de Giesen



# Main water challenges

- Sanitation
- Ecosystems
- Cities
- Food

# **Population and food**



#### In a nutshell

#### In 2050

- 40% 80% more food
- With 10% less water

### Individual water needs (modest lifestyle)

Drinking water	1	m³/year
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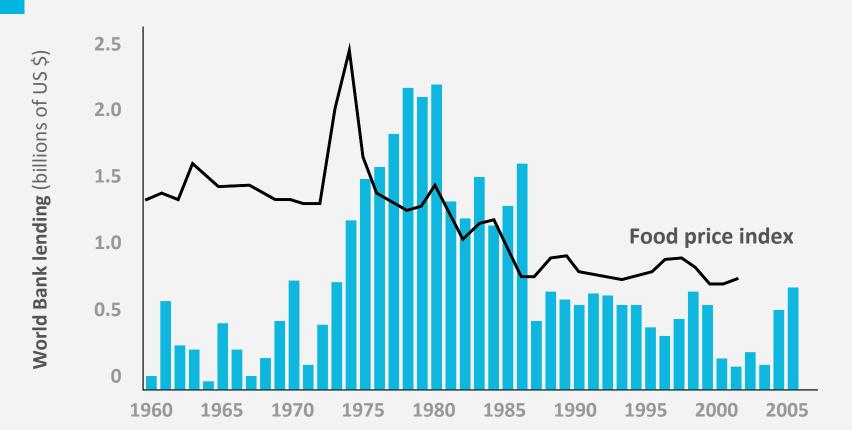
- Kitchen5 m³/year
- Laundry
  10 m³/year
- Toilet
   20 m³/year
- Industry
  200 m³/year
- Food (vegetarian) 500 m³/year

### Individual water needs (demanding lifestyle)

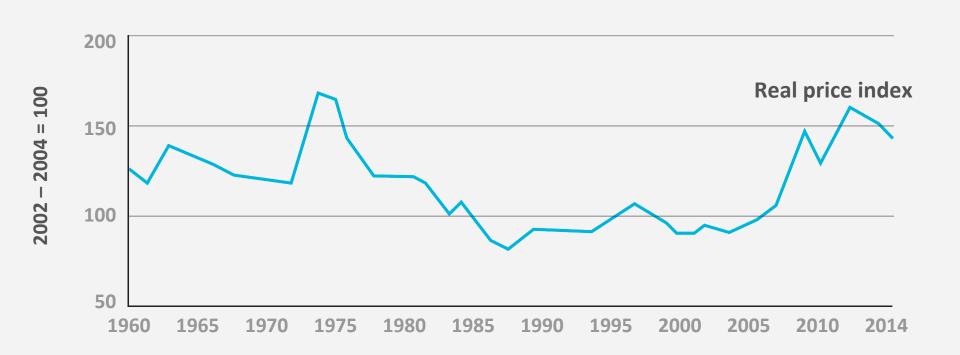
Drinking water	1	m³/year
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- Kitchen5 m³/year
- Laundry
  10 m³/year
- Toilet
   20 m³/year
- Industry
  200 m³/year
- Food (vegetarian)
   500 m³/year
- Meat (extra) 500 1000 m³/year
- Biofuels (1000 l)
   1000 m³/year

#### Irrigation investments in the 70's

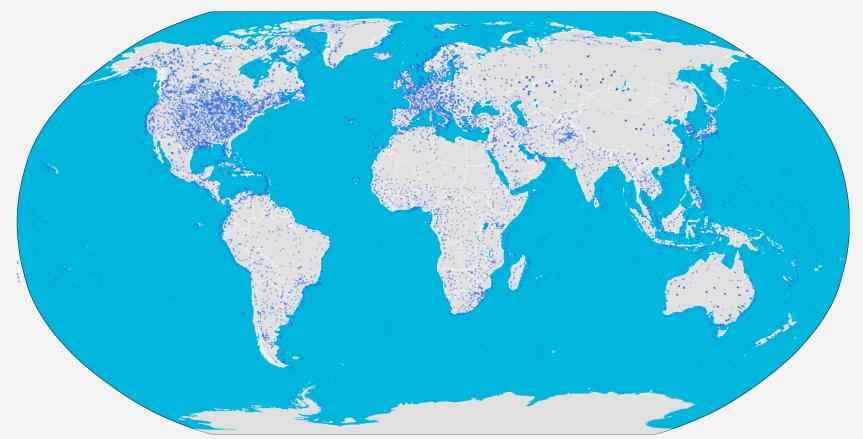


# **FAO** food price index





# **Global weather stations**





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