

# Aquaponic

Integrated nutrition cycles - from vegetables to fish



[www.aquaponic-austria.at](http://www.aquaponic-austria.at)

# Gert Zechner, BSc MA

- Aquaponic Austria – Chairman
- Ponganic – Founder and CEO
- Vertical Farm Institute – steering board



# Aqua-WHAT?

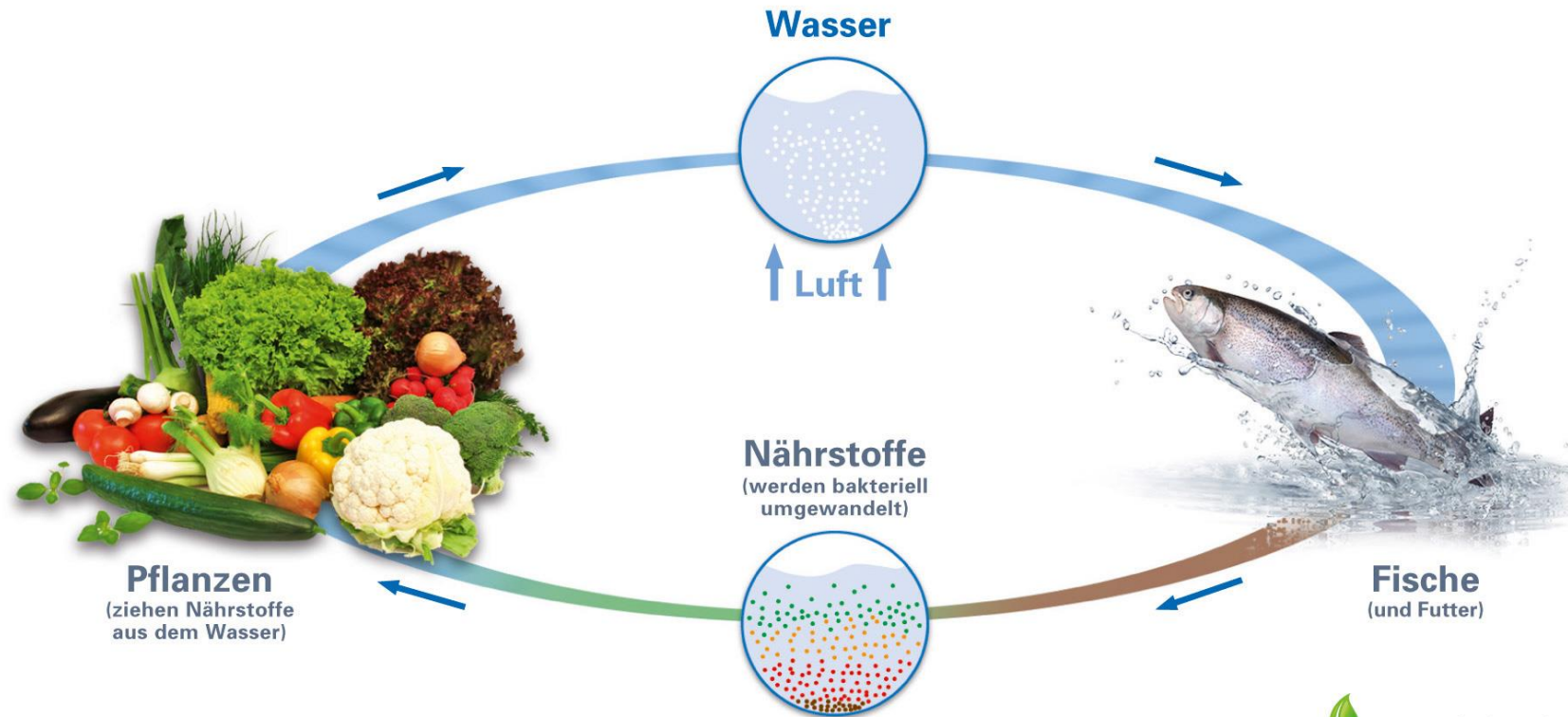
## What is Aquaponic?

**AQUA culture + hydro PONIC =**



**AQUAPONIC**

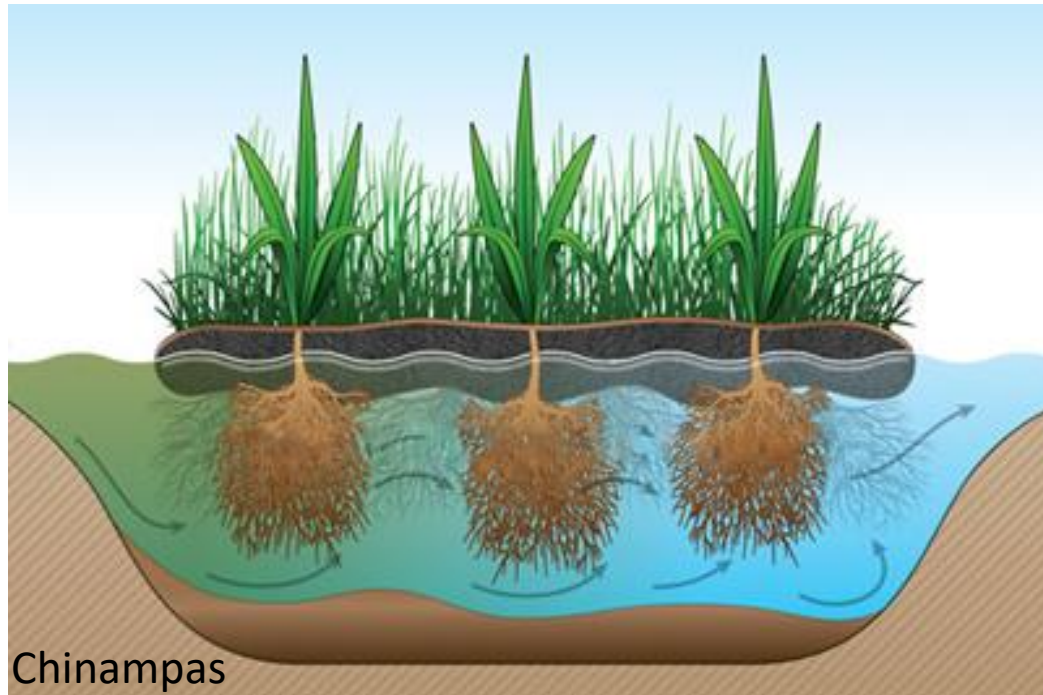
# The Aquaponic-Cycle



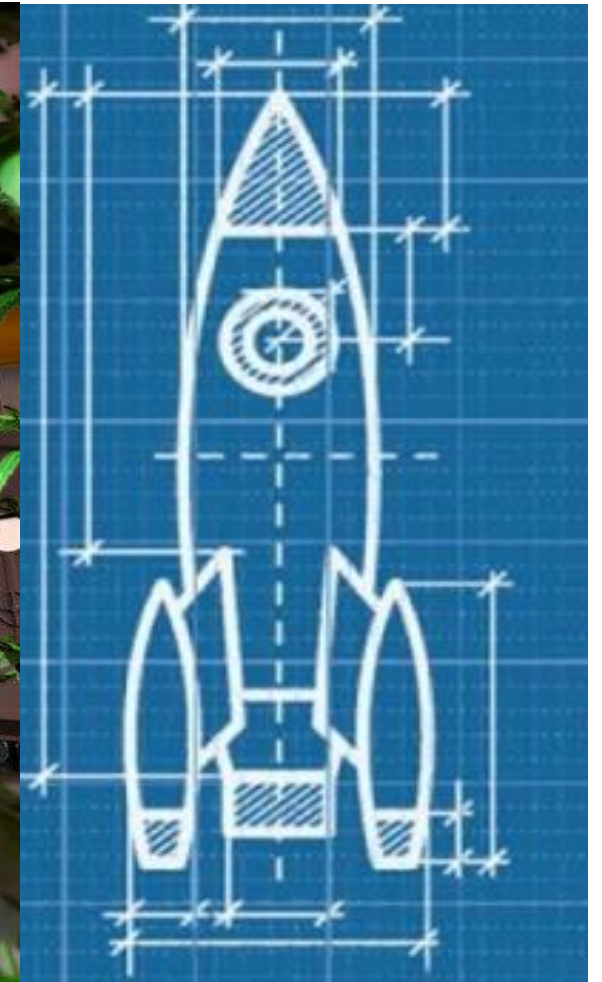
# The roots of AP

~ 11.000 BC - China

~ 1.350 AD - Aztecs



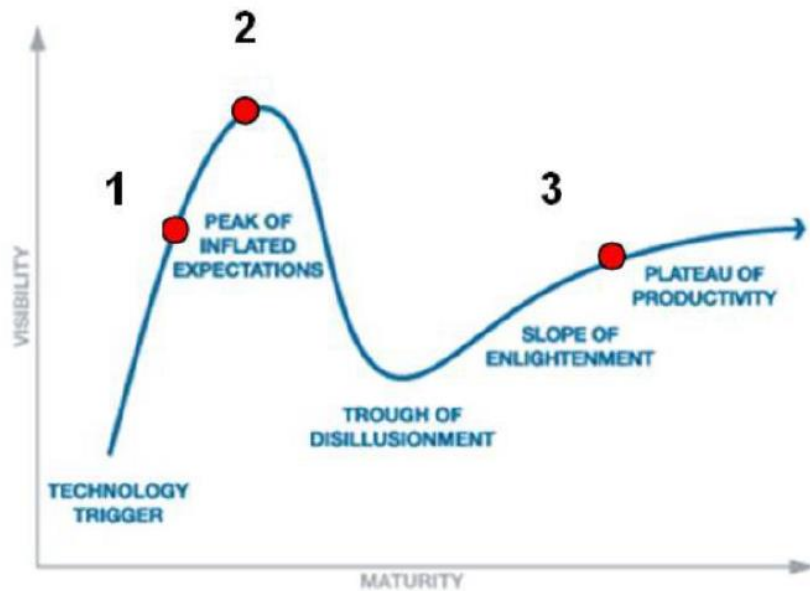
# AP is (not) rocket science



# Compromises everywhere

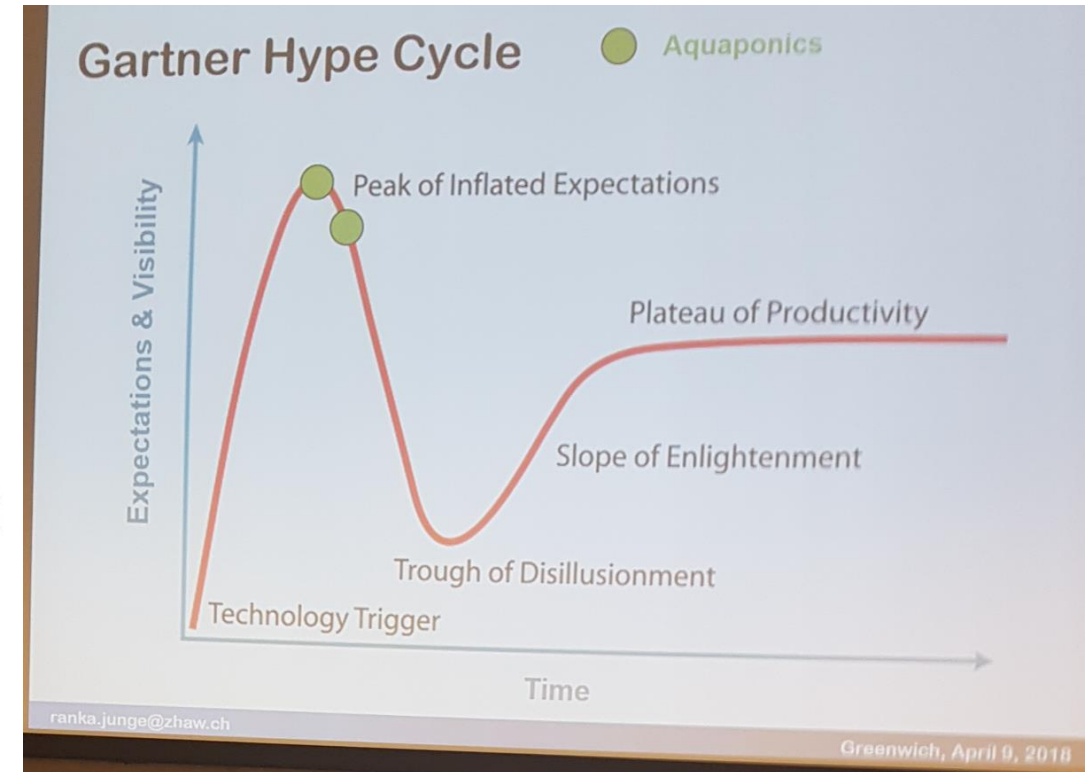
- Aquaculture
- Hydroponic
- Production intensity
- Investment
- Participation
- Safety and animal welfare
- Workload
- Transparency

# AP – Trend Analysis



- 1 Schweiz
- 2 Deutschland
- 3 USA

Abbildung 13: angepasster Gartner Cype Cycle für Urban Gardening (Zweifel, 2014, S. 47)



2014 vs. 2018

# The Design-Question

## The purpose of the AP-System

- Home-System
- Education (Schools)
- Research (Universities, Pilot-Projects)
- Social engagement (Hospitals, prison, retirement homes, Art)
- Food - safety and availability
- AP for profit (agriculture)
- ...?

# Vertical examples



# Examples of AP-Systems – GNZ GmbH

built 2009-2011; research, training, family



# Examples of AP-Systems – GNZ GmbH

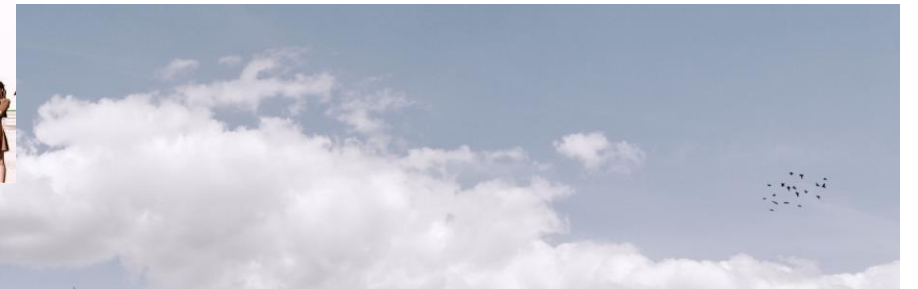


# Vitalion – Startup Vienna



# Bluen – Aquaponic farm Vienna





# Grüner Markt VIENNA

opening mid 2019?



# Schloss Hof – opened Feb 2018





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[www.facebook.com/AquaponicAustria](https://www.facebook.com/AquaponicAustria)



By using aquaponic (or other cultivation techniques) –  
how could we integrate food production into our  
future buildings and cities?

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