



# The Bühler Galaxy

Ian Roberts











# Our track record without Vagon assistance

**129 m**

hectare forest cover  
decrease since 1990

mostly for livestock and  
palm oil production

**17 %**

of the Amazonas  
rainforest

have been deforested  
since 1970

**4.8 m**

tons of plastic  
enter the oceans  
annually (lower  
estimate)

**19625**

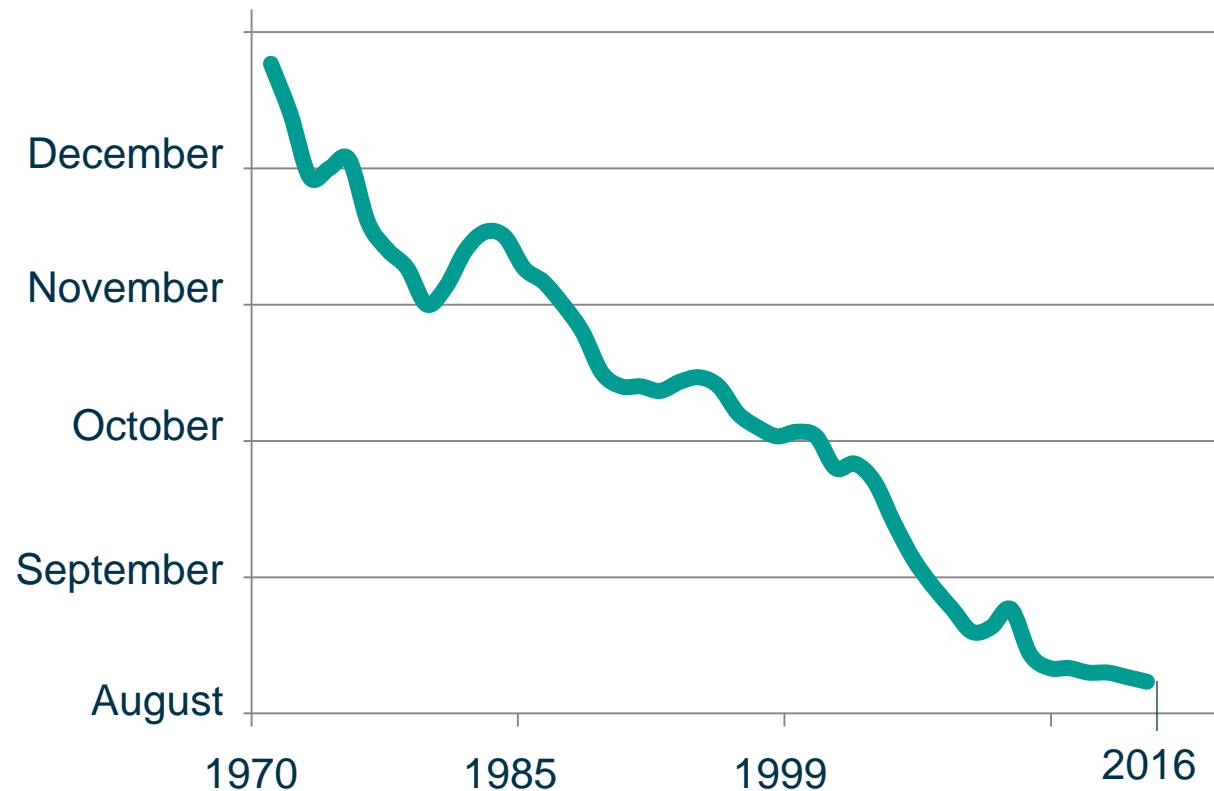
species are  
threatened

but only 14% of all  
species are catalogued



# 1.6 planets per annum

Carbon Sequestration: Inclusion  
of inorganic/atmospheric carbon (CO<sub>2</sub>)  
into organic compounds.



<http://www.overshootday.org/portfolio/creditor-debtor>





**DON'T  
PANIC  
YET**

The text is rendered in a bold, red, 3D-style font with a yellow outline. The letters are arranged in three lines: 'DON'T', 'PANIC', and 'YET'. The background is dark blue with a pattern of white stars of varying sizes, some of which have a soft glow.

# Where's the towel?



# Global trends drive Bühler's business.









# The cost of feeding the world today

**24%**

of global  
GHG emissions  
is from agriculture

**69%**

of total  
Water usage  
come from agriculture

**1/3**

of global energy  
goes into food  
production from field  
to table

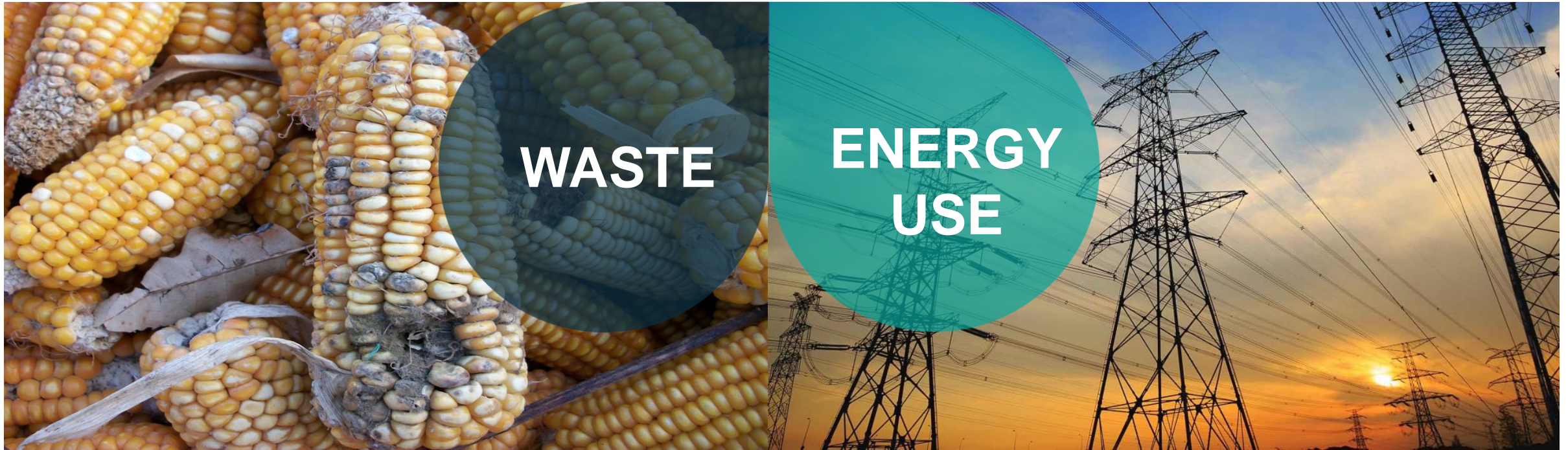
**1/3**

of all food  
produced  
is waste



# Our Target for Sustainable Value Chains

# 30% less





# Constantly improving resource efficiency

## PASTA DRYING



## TORTILLAS



## PULSE MILLING





# Improving resource efficiency

**Digital Services**

**Improving  
Efficiency**



**Closing the  
Protein Gap**



**Reducing waste,  
enabling  
e-mobility**





# Collaborative Innovation Model.

*Up to 5% of our turnover are invested in Research & Development.*

## Strategic partnerships



## Urs Bühler Innovation Fund

**CREATING  
TOMORROW  
TOGETHER**

BÜHLER INNOVATION  
CHALLENGE 2016

## Integration of customers and suppliers



## Entrepreneurial employees



- 4'000 registered
- 2'000 voted
- 50 trained
- 2 new products and 2 services developed

## Global academic networks



**ETH** zürich





# Create a sustainable entrepreneurial culture



**3600 employees voted**  
**3 proposals implementation**  
**2 teams to MassChallenge**

**Internal start/up > CHF 1 million TO**



**CHF 13 million invested**  
**47 new jobs created**  
**CHF 400K awarded**  
**4 companies founded**  
**20 contracts received**



# Can we imagine a sustainable planet with 9 billion people?



Agriculture



Storage



Transportation



Mill



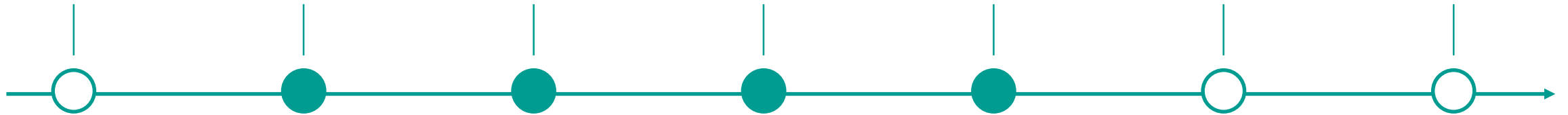
Food processor



Retailer



Consumer



New  
technologies

New business  
models

Entrepreneurs

Collaboration



**DON'T PANIC**





Innovations for a  
**better world.**