Co-creating a digital process industry DIGITAL TRANSFORMATION IN THE PROCESS INDUSTRY" – PERSPECTIVE OF A CHEMICAL PLAYER



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Sibylle Mutschler Digital4Clariant Herøya Industry Park Conference 30.11.2017

what is precious to you?



Agenda

- Clariant at a glance
- Digital transformation is reality
- Challenges and opportunities: Cooperation and co-creation as emerging pattern



Digital transformation in the process industry – perspective of a chemical player

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Clariant at a glance

A GLOBALLY LEADING COMPANY IN SPECIALTY CHEMICALS

5847

Sales 2016 (CHF m) from continuing operations **263**

Net result 2016 (CHF m) from continuing operations

Business Areas

887

EBITDA 2016 (CHF m) before exceptionals

15.2%

EBITDA margin 2016 before exceptionals

140 in 53 17442

companies

countries

Employees 2016

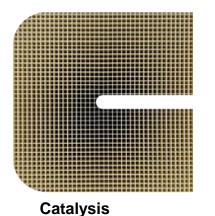


Four Business Areas – the right portfolio for future growth



Care **Chemicals**

SALES (CHF m)	1 465
EBITDA (CHF m)	276
EBITDA margin	18.8 %



SALES (CHF m) 673 **EBITDA** (CHF m) 160 **EBITDA** 23.8 % margin



Natural Resources

SALES (CHF m)	1 184
EBITDA (CHF m)	200
EBITDA margin	16.9 %



Plastics & Coatings

SALES (CHF m)	2 525
EBITDA (CHF m)	368
EBITDA margin	14.6 %



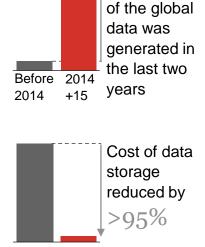
Topics today

- Clariant at a glance
- **Digital transformation is reality**
- Challenges and opportunities: Cooperation and co-creation as emerging pattern



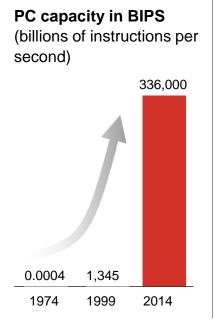
Keeping pace with the four digital dimensions fueling innovation and change is crucial to Clariant's growth

Data availability & costs



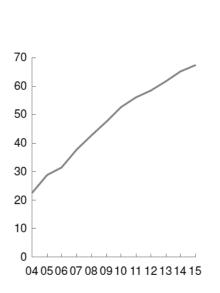
90%

Computing capacity



Readiness of society

Share of Internet users



+

Connectivity & speed



5-10X

faster rate for technology adjustment in Internet of Things (after the market maturity) than e. g. for mainframe technology (30 years!)



Clariant has established six work-streams to lever the potential of digitalization into the organization

New digital business model development

Grow via business models with digital offering

Digital@Operations

Next level Clariant Production System and performance with (in)direct growth impact Big Data and Advanced Analytics

Data science as growth and operational efficiency lever

Cyber security

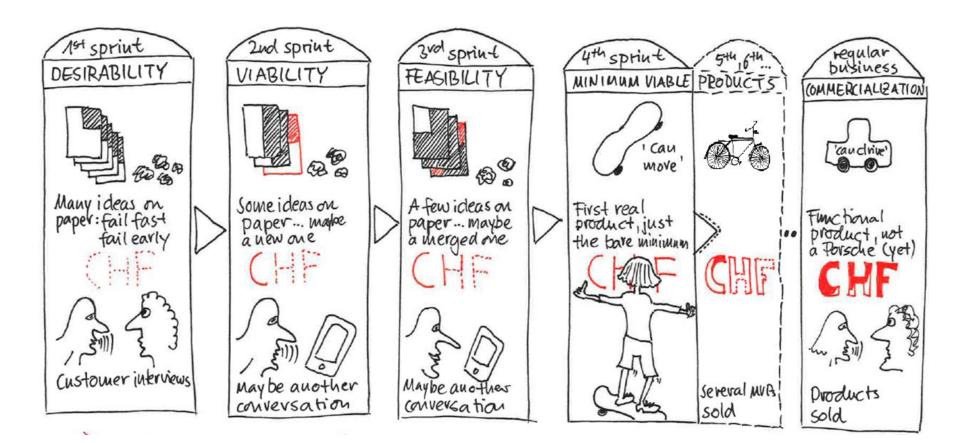
Legal and Tax

_ Digital4Clariant program



We imbibe "the valley spirit" to embrace digitally driven entrepreneurship

WORKING IN SPRINTS - PERFECTIONISM IS THE ENEMY





12 km from Muttenz

Old pump factory

Agile Sprints



Team set-up within four weeks

Off-site 3-5 days a week

Immersion boards decide







Old warehouse Muttenz harbour

Berlin Digital Ventures







Planegg

...





Interdisciplinary Students involved Consultants Freelancers Business angels





Topics today

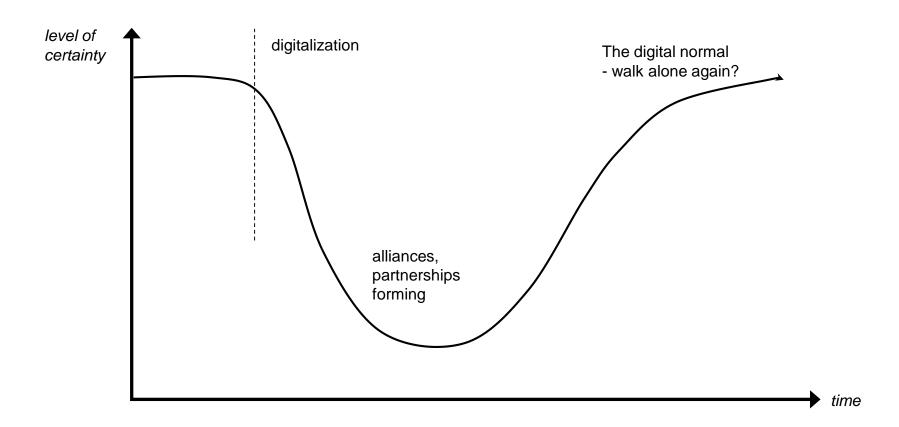
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"Our general strategic advise for business executives includes building strong alliances and partnerships (and, if necessary, even with competitors)"

Is it?

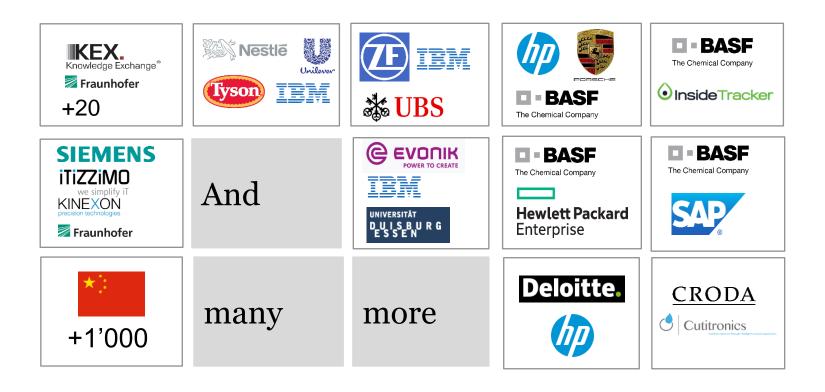


Just as a reaction to uncertainty?





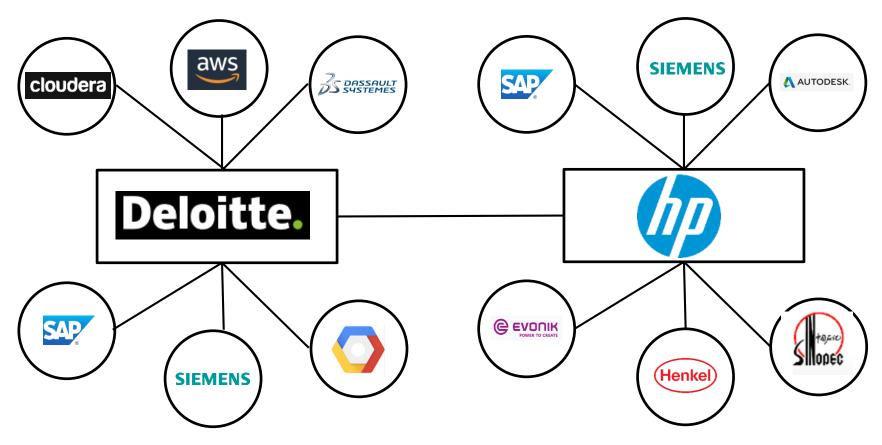
Many alliances and partnerships formed in last 12 months – and it is not a reaction to "uncertainty" only



And companies even widen the span of cooperation



"HP and Deloitte announce alliance to accelerate digital transformation of US\$ 12 trillion global manufacturing industry"



Digital collaborators' ecosystem

Manufacturing ecosystem



It is very likely that there will be a competition of alliances each orchestrating overlapping ecosystems































Cooperation is the new (difficult) normal



And now let's not forget some of the most important players



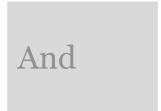












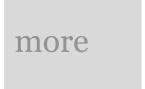


















Food for thought: Chinese robotics industry alliance

Chinese president Xi Jinping initiated a "Made in China 2025" program.

In June 2017, more than 1'000 firms and a new robotics association, CRIA (Chinese Robotics Industry Alliance) have begun to jointly realize the advantages of robotics.

Goal of partnership: Five-year robot plan focuses on automating key sectors of the economy including car manufacturing, electronics, home appliances, logistics, and food production.



How are you going to cooperate?



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Road to success





Questions?