Openness and commercialization

an introduction

Karel Luyben
CESAER / TU Delft / EOSC-EB
Research quadrants
Research quadrants

Curiosity vs. Utility

Pragmatic vs. Fundamental
Curiosity

Utility

Pragmatic

Fundamental
Curiosity

Utility

Fundamental

Pragmatic
University Business relations: HOW?

Curiosity vs. Utility

Pragmatic vs. Fundamental

Comprehensive Universities vs. Universities of Technology

Technological Institutes vs. Industry

PPP
Curiosity

Utility

Fundamental

Comprehensive Universities

Universities of Technology

Technological Institutes

Industry

TRL-scale

1 2 3 4 5 6 7 8 9

Truly Comprehensive Universities

Truly Fundamental

Truly Pragmatic

Truly Utility
OPEN SCIENCE

Towards Open Access

Towards FAIR Data

Citizen Science

Stimulation and support

SCIENCE 1.0

sciences

skills

rewards

metrics

SCIENCE 2.0
OPEN DATA and/or FAIR DATA

Towards “as FAIR as possible” and “as open as possible”
What FAIR is not

- FAIR is not a standard, it’s a guiding principle
- FAIR is not only ‘Semantic Web’
- FAIR does not mean ‘Open’ or ‘Free’
  
  Data are often Open but not FAIR
  Data could be non-Open yet perfectly FAIR
  Many data can never be Open

FAIR principles do not directly prescribe data quality, trustworthiness, ethics or responsibilities.
About FAIR

- FAIR principles do not directly prescribe data quality, trustworthiness, ethics or responsibilities.
- Data cannot be Un-FAIR but Re-useless
- FAIR is more about Stewardship then about management
- FAIR is about Visiting rather then Sharing
Boundary conditions for good PPPs

- **Quality** with respect to Research, Education and Valorisation
- **Respect, trust** and friendship; open exchanges
- **Active participation**; the more partners contribute the more they will get out of the relation
Thank you