



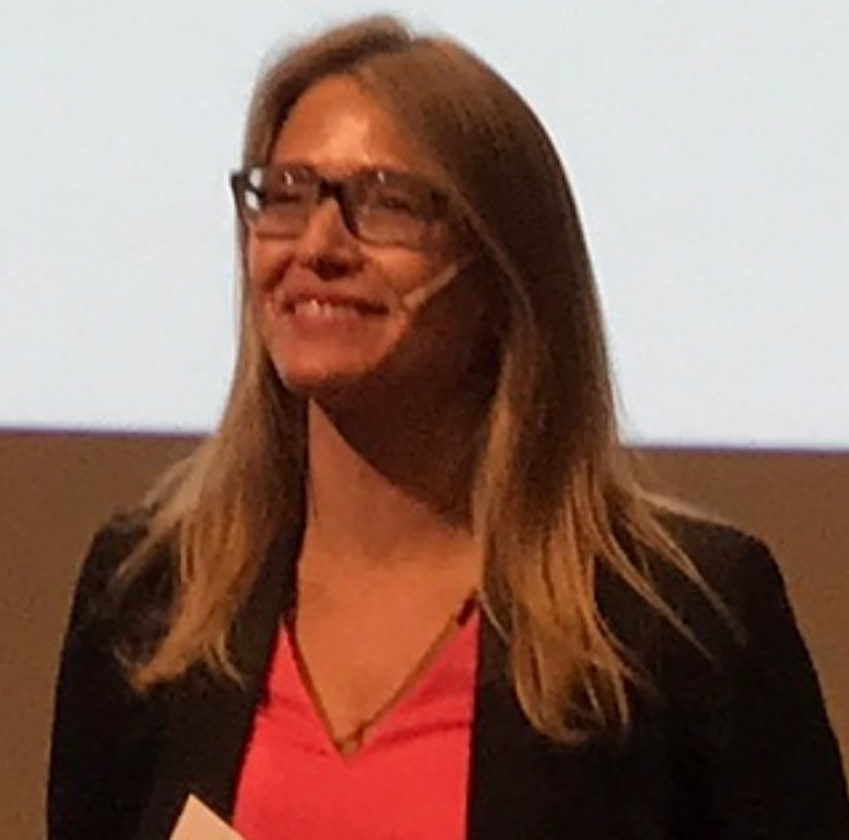
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Digital transformation is different, very different!

Prof. Dr. Reinhard Riedl
President Swiss Informatics Society

► Berner Fachhochschule (BFH)



**FAKE
NEWS**

Our fight against fake news is good,
the Chinese fight against fake news is bad!

Government enforcement of good behavior is evil,
nudging is great!

Labor markets



➤ SKILLS MISMATCH

- Innovation blockade
- Side effects ...

➤ DIGITAL SKILLS NEEDED

- Computational thinking in practice =
ability to develop algorithmic solutions that are ready for coding
- Data literacy in practice =
Statistical know how + curiosity + domain knowledge +
ability to deal with inference uncertainty

➤ INCREASING INEQUALITY

- In the recent past: zero effect on the number of jobs,
but causal evidence for increasing inequality in some countries

Business & public administration

- **INCREASING SLACK**
 - Corruption ahead
 - Byzantine management present
- **CONTINGENCY** of developments and success or failure
 - Power games gain more importance
 - Disengagement of employees results
- **AUTOMATED & EMERGING COLLECTIVE INTELLIGENCE**
 - Escape from regulations through DAOs becomes possible
 - “Unintended” violation of regulations (e.g. price agreements) in traditional companies already present



From Regent Express Private Limited

➤ CAMPAIGNING TRIUMPHS

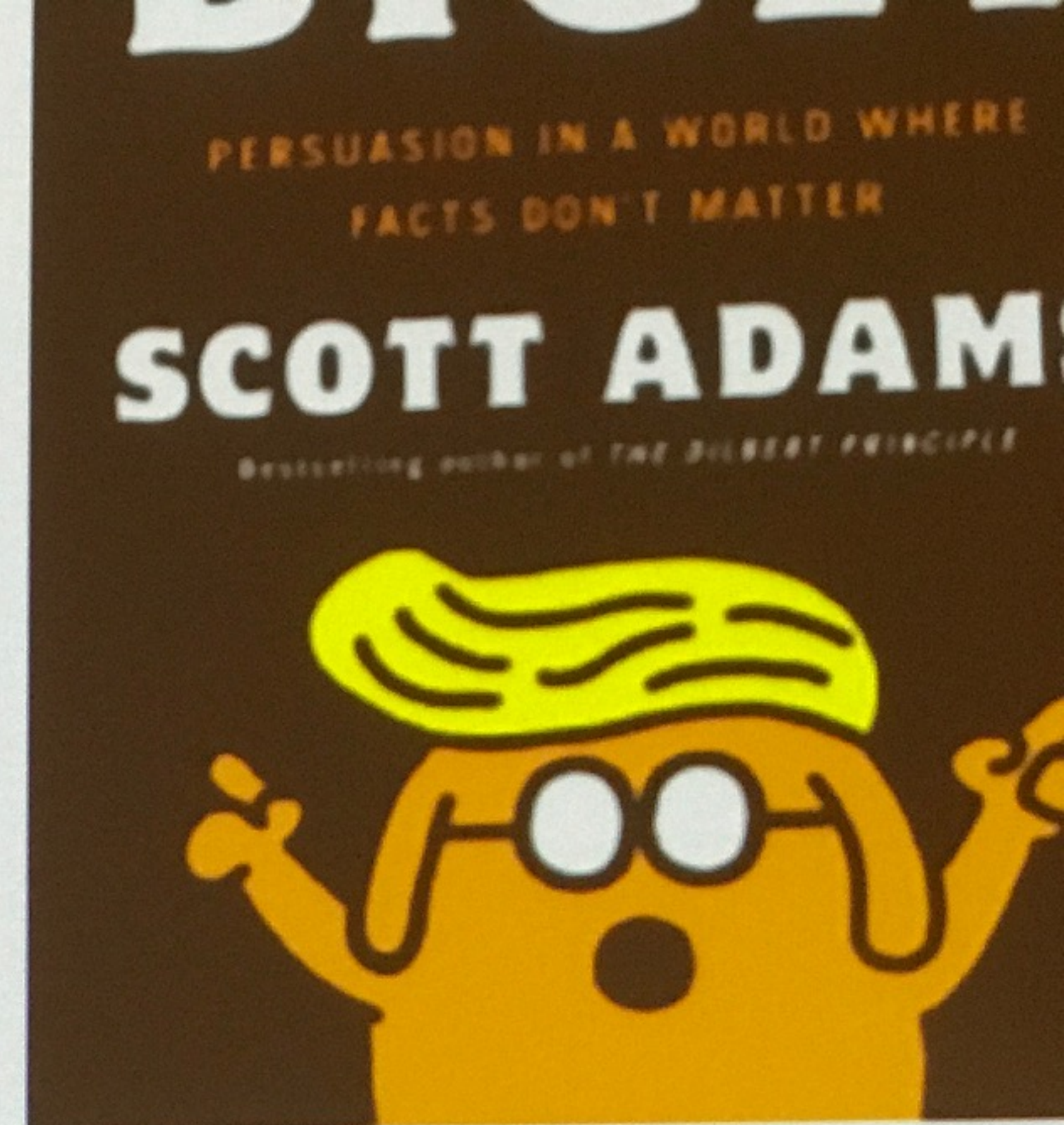
- Both by master persuaders and bottom-up by “grass-rooters”
- Deliberation dies even as an idea

➤ RARE AND BIG WINNERS

- More sources = more silly filters
- Six-seconds info bites take over
- “Bose-Einstein” network structures lead to outer-political politics

OLD & IDEOLOGICAL THINKING STEERS R&D

- “Blockchainers” want to replace institutions
- But no ICT contributions to the simulative democracy

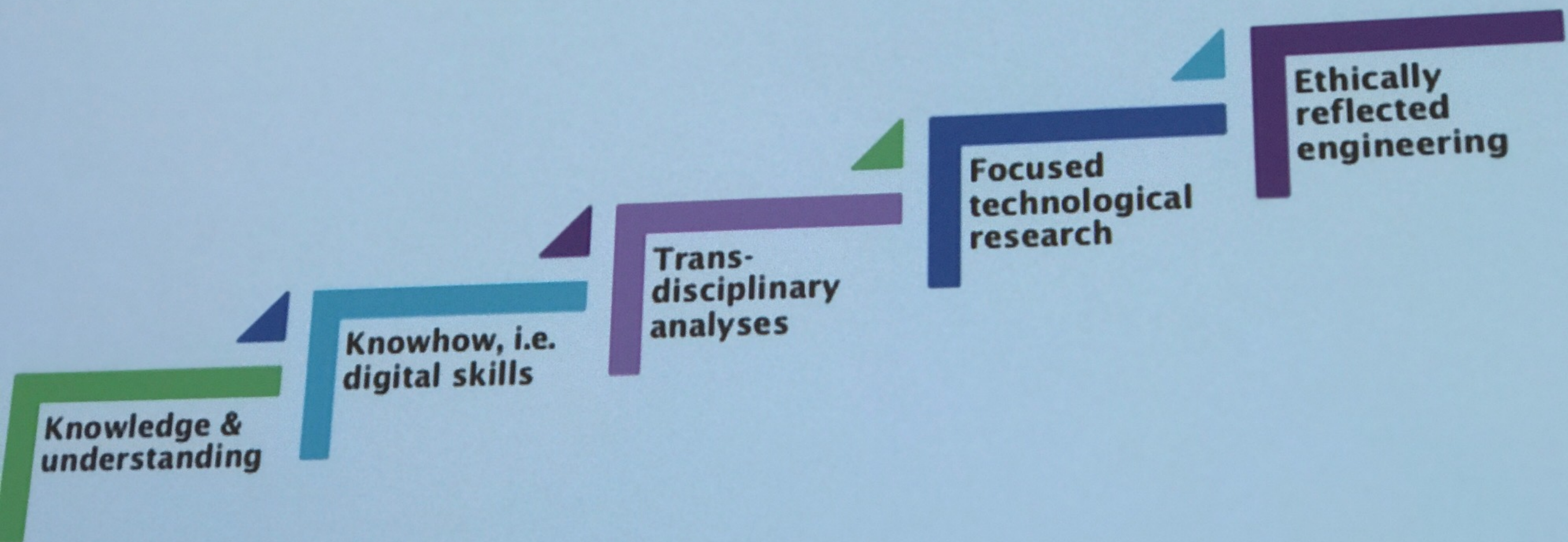


Lots of great tech solutions to societal challenges have never been deployed

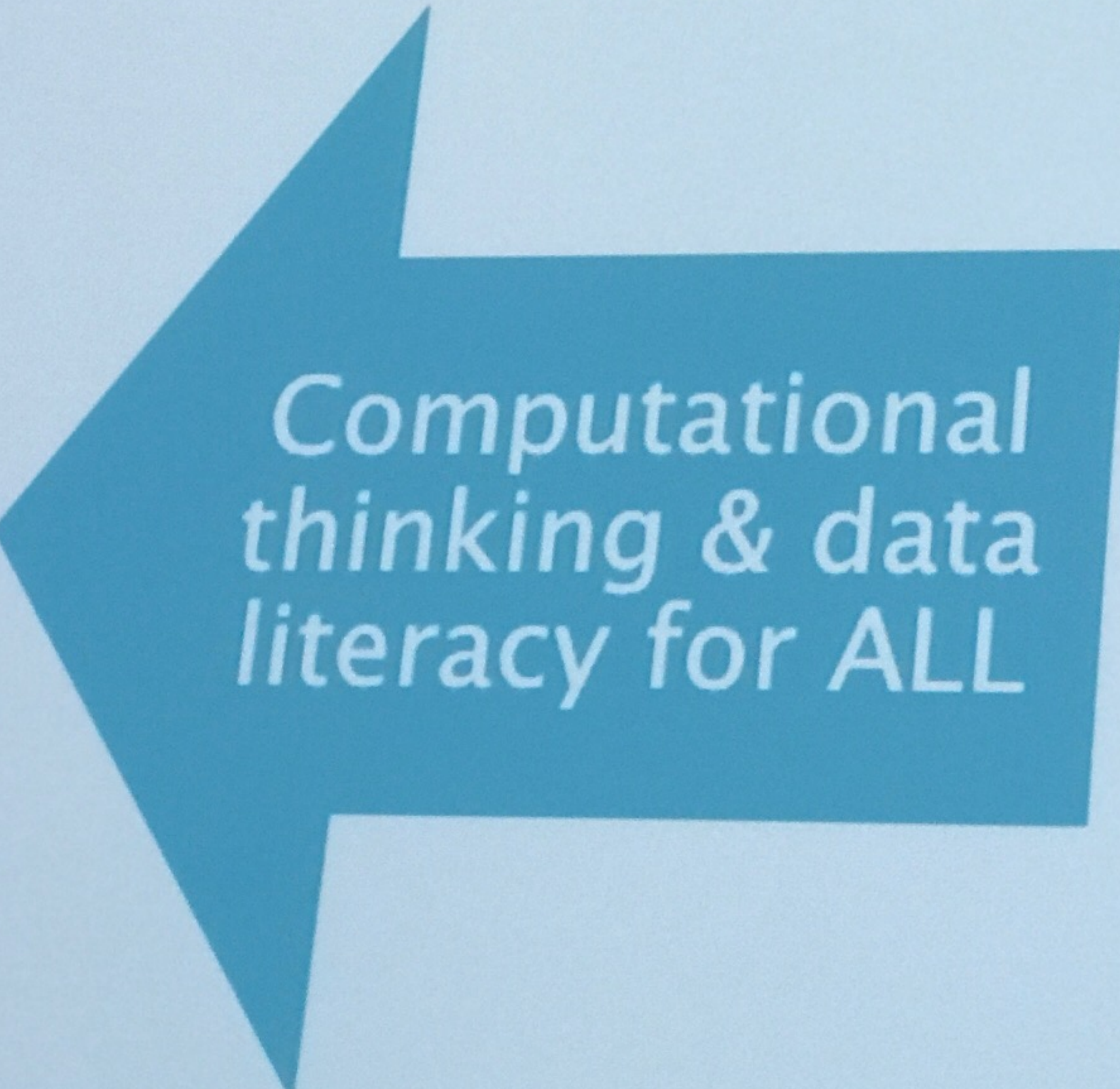
Lots of unsolved tech problems for economically deployable solutions are hardly addressed

.... and lots of scary ideas are on their way
e.g. the «new book» surveilling you


What we really need ...



Two key SI engagements



Computational
thinking & data
literacy for ALL



Dialogue on
quality in
engineering

Brain-Machine Interfaces: Beyond Decoding

José del R. Millán

Defitech Professor of Brain-Machine Interface

Center for Neuroprosthetics

Swiss Federal Institute of Technology Lausanne

