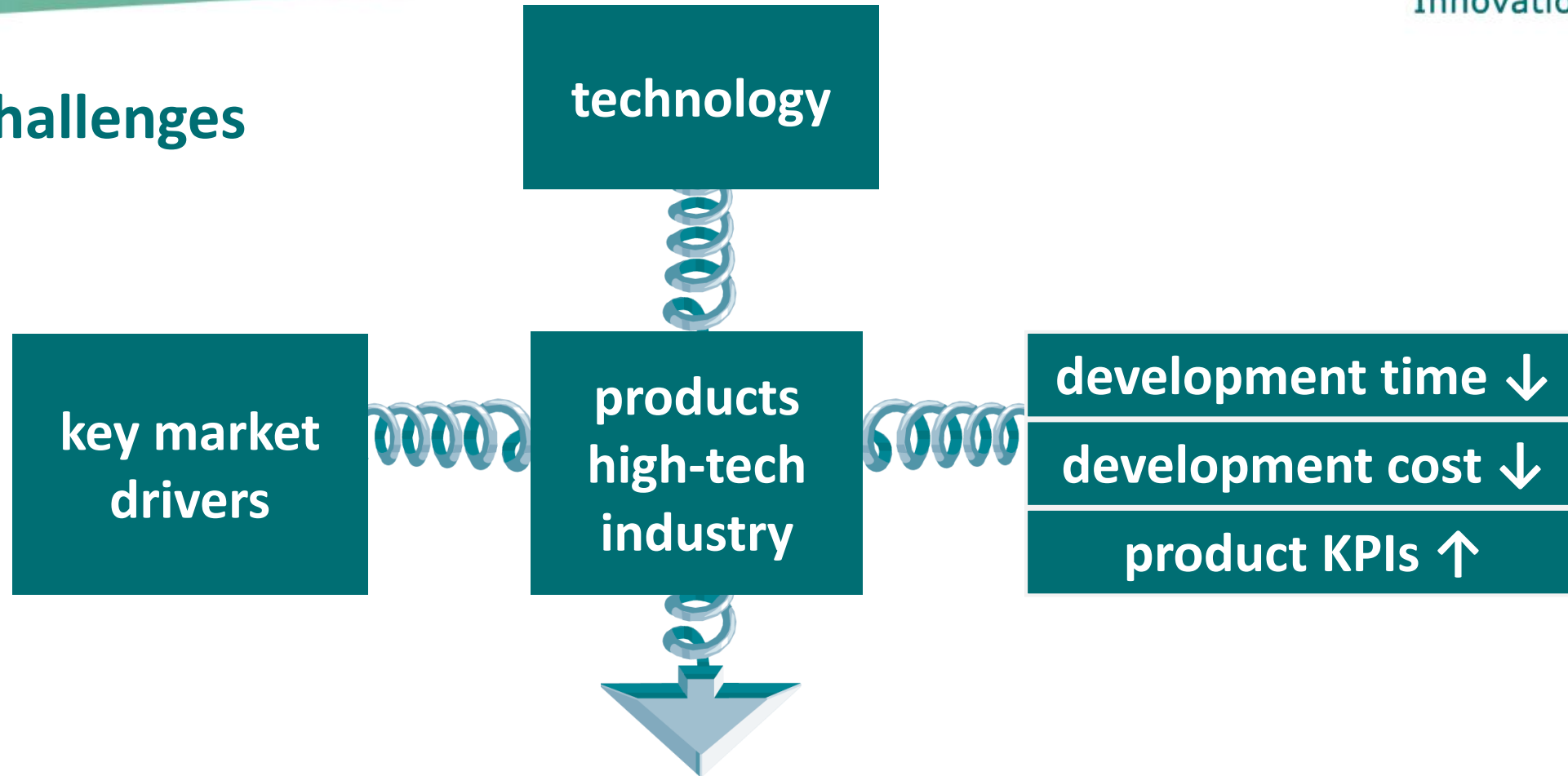


Managing complexity in embedded systems engineering

Topics that we address today

Frans Beenker
Business Manager

Our challenges



do more with less people ...
be more clever and avoid mistakes ...
collaborative work ...

Complexity drivers for cyber-physical systems

**key market
drivers**

Solution selling

Integrated systems

Autonomous systems

Life cycle focus

technology

HW and SW evolution

Product configurations

development time ↓

development cost ↓

product KPIs ↑

Efficiency

Quality

Non-functionals

Ways of thinking ...



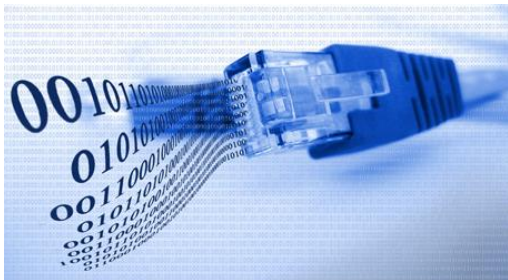
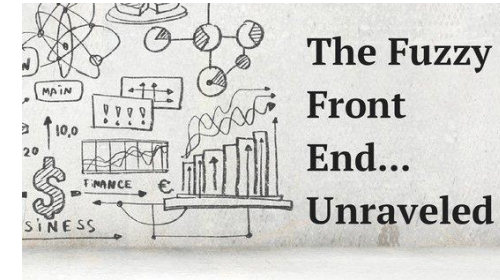
Abstractions and models
Virtual prototyping



Early phase analysis
Combining and use all you know

Symposium topics / presentations and market

Efficiency: system architecting and early phases of development



The move towards solutions:
Integration data/knowledge
System security

Open innovation: use results from others – open source



Learn and apply

Symposium workshops



Abstractions and models
Virtual prototyping

**Domain
Specific Languages**

**Performance
architecting and
engineering**



Early phase analysis
Combining and use all you know