SEN Symposium

December 3rd, 2014
Amsterdam

http://www.sen-symposium.nl

#sensym2014

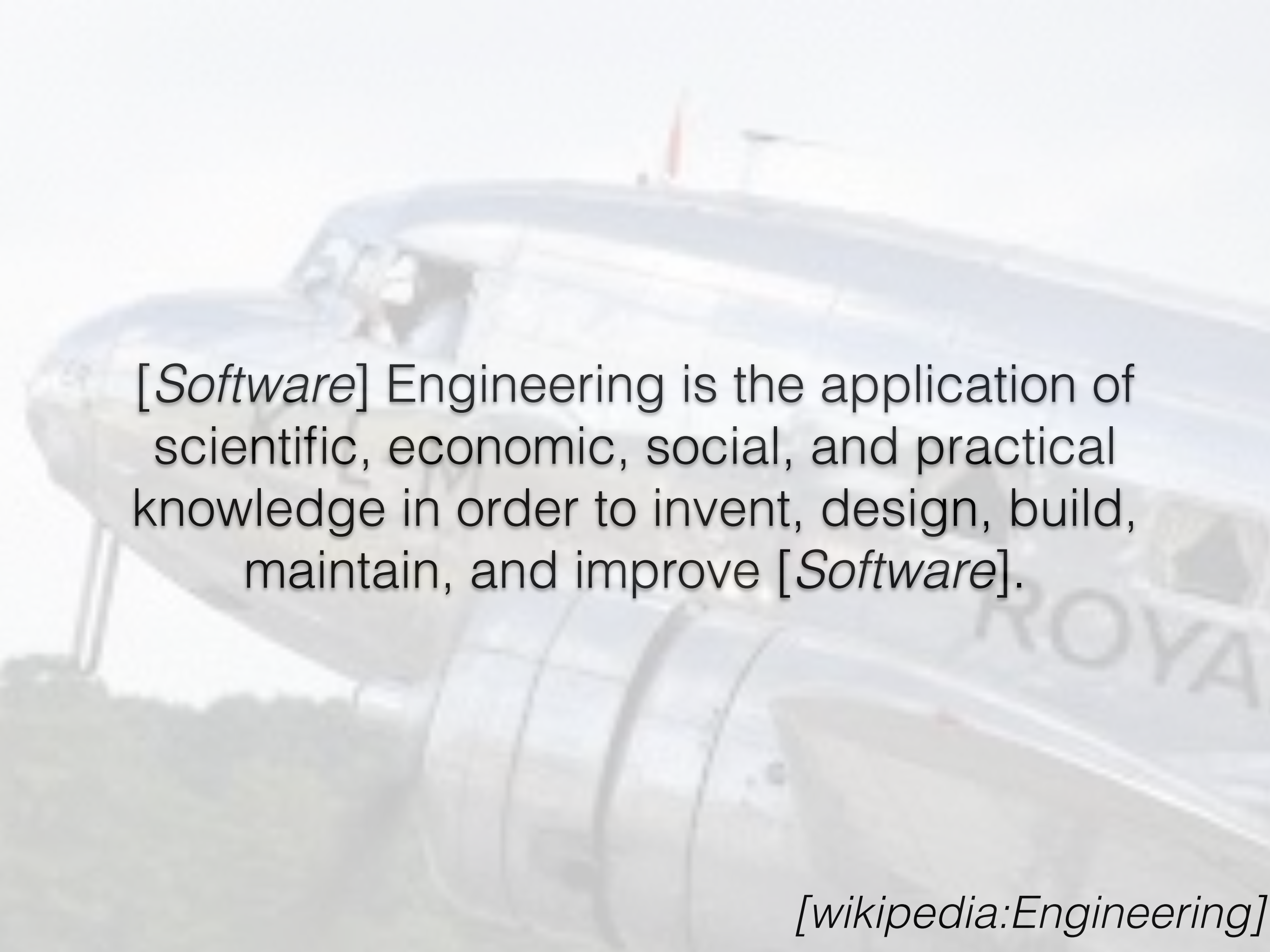**CWI**

NWO

What is Software Engineering?

Normative Perspectives

- SE is **Engineering** - measurable, predictive, trusted

- SE is **Mathematics** - correct, fundamental, elegant

- SE is a **Science** - methodical, discovery, truth

- SE is a **Business** - economical, risk, value

- SE is a **Craft** - qualitative, ethical, pride

- SE is an **Art** - surprising, reflective, beautiful

- SE is a **Game** - complex, competitive, fun

Wicked Problem

security
privacy
robustness
maintainability
usability
efficiency
energy
scalability

coding

design

informatica

SE

social

economy

ICT

requirements
architecture
design
testing
construction
evolution
configuration
deployment

[*Software*] Engineering is the application of scientific, economic, social, and practical knowledge in order to invent, design, build, maintain, and improve [*Software*].

[wikipedia:Engineering]

Why are we together?

Software is not the supporting act (anymore)

Printing Press

Erasmus

Book

Internet

Tim Berners-Lee

Web

Computer

Dijkstra

Software

Software Society

- We have *impact*

  - but we need to be <u>more visible</u>

- We have *responsibility*

  - but we need to be <u>heard more</u>

- We have professional *networks*

  - but we need to <u>work together</u> more

SEN Symposium

- Yearly
- Inclusive
- Excellent speakers
- Topical posters
- Discussion
- Networking

Agenda

- Speaker pairs entertain for 25 minutes each

- Audience + speakers discuss for 15 minutes

- Posters are presented during {breaks,lunch,reception}

- Twitter tag **#sensym2014**

- {**Red**,**green**} cards to signal {**disagreement**, **agreement**}

Program

Time	Speaker	Title
08:30-09:15		Doors open
09:15-09:30	Jos Baeten, Frank de Boer, Jurgen Vinju	Welcome
09:30-10:45	Paul Klint Paris Avgeriou	The Revenge of the Coroutines Technical Debt: looking for new solutions for an old problem
10:45-11:00		Coffee break
11:00-12:15	Jaco van de Pol Patricia Lago	Power optimisation for multi-processor dataflow applications Software with Energy
12:15-13:15		Lunch
13:15-14:30	Eelco Visser Sjaak Brinkkemper	A Language Designer's Workbench Software Production: fundamental research for the software society
14:30-14:45		Coffee break
14:45-16:00	Farhad Arbab Mark van den Brand	Composition of Concurrency Model Driven Engineering and Functional Safety
16:00-16:15		Coffee break
16:15-17:00	Erik Meijer	Contravariance is the Dual of Covariance Implies Iterable is the Dual of Observable (Making Money Using Math)
17:00-18:00		Reception