

Sioux Technologies | Hot-or-Not

The Future of System Engineering Management

Wednesday February 10, 2021

16:30 hrs opening by Arend-Jan Beltman, Sioux





please turn your camera OFF



please MUTE your microphone, to prevent background noise



please **OPEN** the chat, so that if you have any questions during the presentation you can write your question in the chat, and we get back to you.



please hold your questions!

Agenda

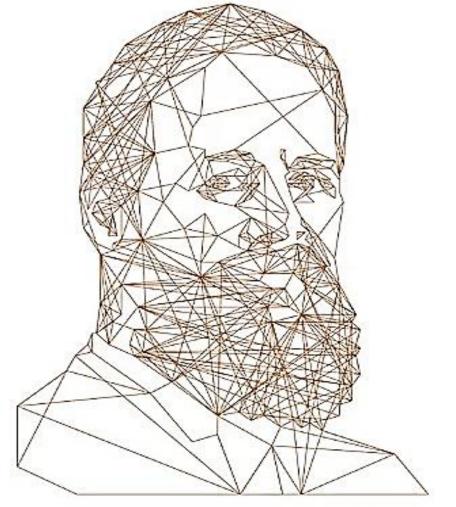
16:30 - 16:45 hrs Opening by Arend-Jan Beltman, Sioux Technologies

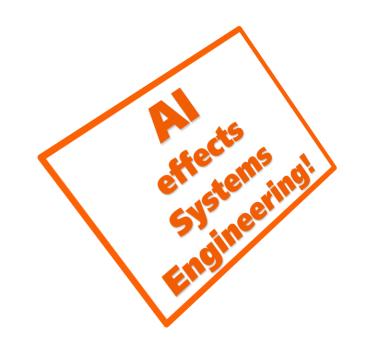
16:45 - 17:30 hrs Keynote: Embedding Systems Thinking by Wouter Leibbrandt, director of ESI (TNO)

17:30 - 18:00 hrs Dialogue session

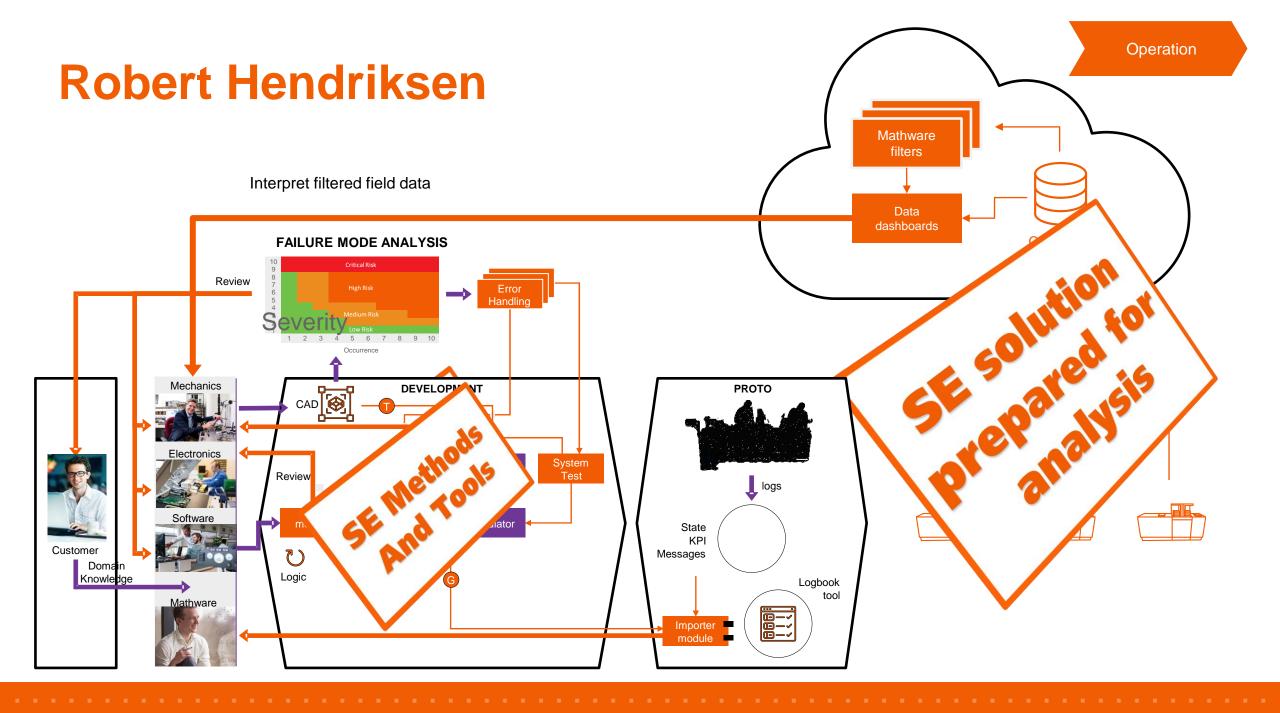
Jim Stolze

Algoritmisering, wen er maar aan!

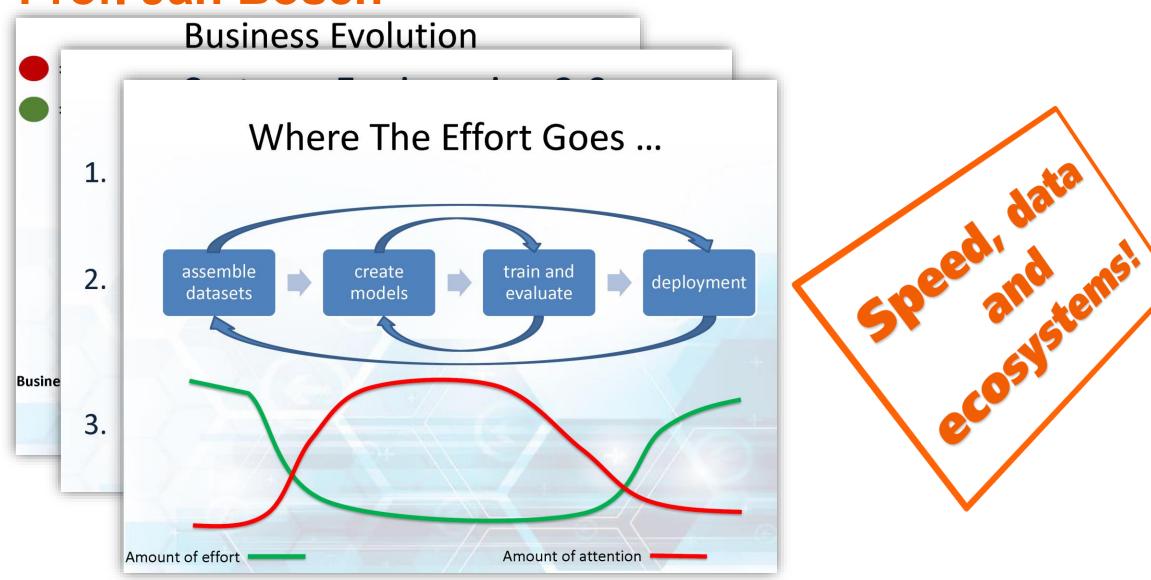




Leven, werken en geld verdienen met kunstmatige intelligentie



Prof. Jan Bosch



What is Systems Engineering?

Definition of Competence:

"Demonstrates skills methods to handle technology and m2 age the domain(s) specific complexity with appropriate tools"



Nov. 2020 episode on: Skills & Methods

Methods & Skills

I

31%	"Smart Systems" ≠ "Smart Software" AI alone doesn't make the difference. We need an ecosystem. How?
19%	To what extend are educational institutes 'nurturing' SE skills?
17%	Definition of Systems Engineer (≠ Systems Architect?)
17%	Where are those people that can translate fundamental physics into business opportunities? Can we train them (on the job)?
16%	Multiple institutes (ESI, HTSC, EAISI,) How 'one' roadmap agenda for us as Systems Engineers?

Georgo Angelis





High-Tech

Georgo Angelis

High Tech prepares for AI

High Tech prepares for AI



Growing design challenges





Contribute to a flourishing ecosystem: Student teams



Feb. 2021 episode on: Management

Management 10 February 2021

9

How does a team decomposition look like? How to deal with RASCI in your project? Managing CAFCR is teamwork. Who's holding what? How 'management' and System Engineering becomes complementary? (Ben Pronk: 'Het nadeel is dat de toparchitecten een groot deel van hun tijd kwijt zijn met het managen van managers.')

16

Wouter Leibbrandt



"EMBEDDING SYSTEMS THINKING"

Dialogue session

Discussion about questions

Go to www.menti.com and use the code XXXXXX

Save the date theme session:

- ✓ 11 Nov 2020 Ecosystem for AI (Methods & Skills)
- 10 Feb 2021 Systems Thinking (Management)
- 14 Apr 2021 Servitization (Technology & Trends)
- 09 Jun 2021 Connectivity & Interoperability? (Tools)



Technology & Trends 14 April 2021

29%	Jan Bosch mentions that we need to bring up architectures that meet the 'XaaS' objective. Is Brainport compatible for such a service?	
27%	Where and how can we apply AI as part of my machines?	
21/0		
24%	Behaviour (and interaction) is something you model and derive your code from it seamlessly (writing it down is unproductive!!) What is todays the state-of-the-art?	
20%	"Digital Twinning" is trending, but how can it support SE practices?	

Tools 9 June 2021

36%	Tool connectivity & interoperability is difficult. Can we boost this as 'one' brainport?
27%	Relations between functionality and modules shall be a mouse click away. What tools will help us out? (and if yes, more administrative load?)
21%	"Help I've lost the overview!" So many tools (SysML, MPS, etc) Who's explaining which to use for what purpose?
16%	Eventually, there will be like 4 (?) toolchain suppliers and a company is forced to use their tools for every discipline. Really?

Thank you for being with us, see you next time in April !

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