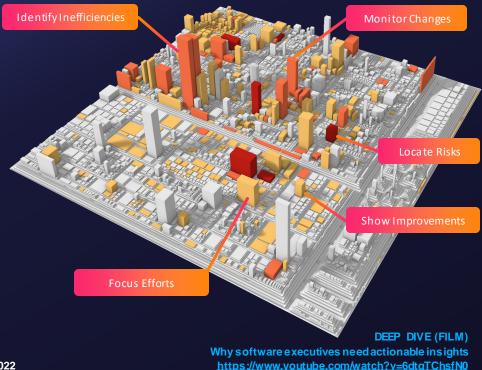
Seerene The Digital Boardroom

Unlocking Efficiency Potentials of Software Development Organizations See. Understand. Improve. The way software development organizations run.



Dr. Johannes Bohnet Co-CEO & Founder of Seerene

🞽 hello@seerene.com

"Every Company is now a Software Company" (Satya Nadella, CEO Microsoft)

Every Company Relies on Efficient Software Production to Survive

"Every company is a software company. You have to start thinking and operating like a digital company."

Satya Nadella CEO Microsoft

"In 2017 software failures led to losses of \$1.7 trillion in revenue. 3.6 billion people were affected." Source: Tricentis, 2018



Wirtschaftswoche 5.2.2021

The Age of **Software 'Factories'**



10 Page Story featuring Seerene in CIO as well as in Computerwoche. 11/2020 https://www.cio.de/a/die-aera-der-softwarefactory.3260885

"Software is eating the world

Marc Andreessen

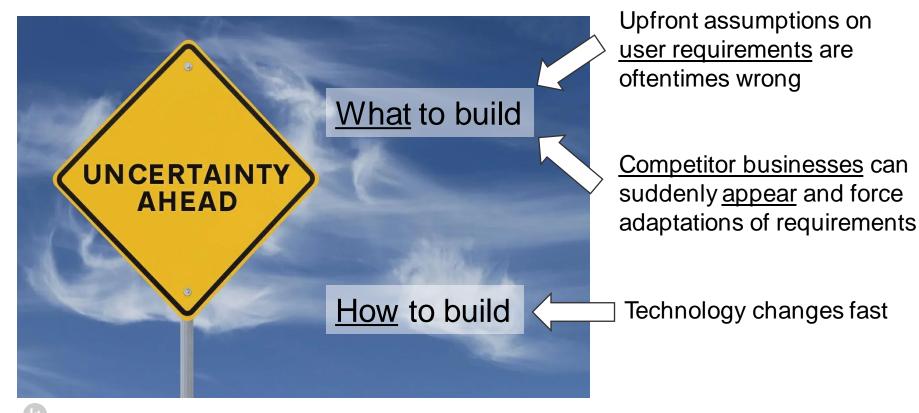
"Deutsche Post loses €345 million, Lidl €500 million on failed SAP upgrades."

Source: Wirtschaftswoche, 2018

All Industries Rely on Software

Why many Software Projects are not delivered in Time and Budget

Software production happens in contexts of uncertainty



Agile Development is an answer to Uncertainty

But agile has a blind spot and makes controlling financial aspects even harder

Waterfall Projects



plan \rightarrow define costs \rightarrow sail

Agile Projects



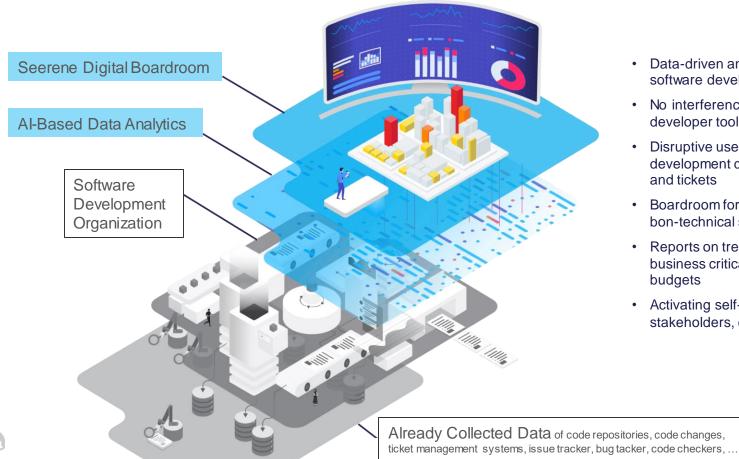
pay-as-you-sail towards a vision (time and material approach)

The disadvantage of agile methodology:

- <u>No upfront planning.</u> Just steering towards a vision.
- <u>No time tracking.</u> Just rough on-demand effort estimations with an artificial, team-specific, non-comparable time currency called "story points"

→ No information of how much developer time is spent for what. → Are the coding investments aligned with business priority?

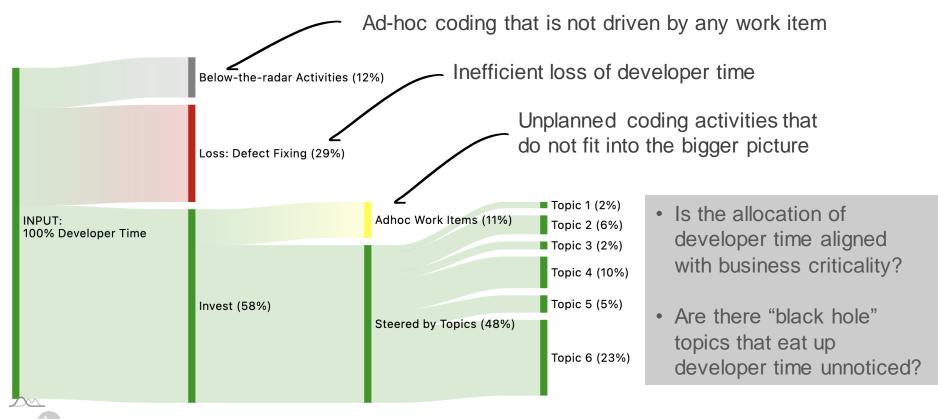
Financial Transparency in Software Development Organizations



- Data-driven analysis of actual software development activities
- No interference to methodologies, . developer tools & processes
- Disruptive use of existing software development data such as commits and tickets
- Boardroom for both technical and ٠ bon-technical stakeholders
- Reports on trends, risks, state, business criticality, and spent budgets
- Activating self-reflection across all ٠ stakeholders, creating awareness

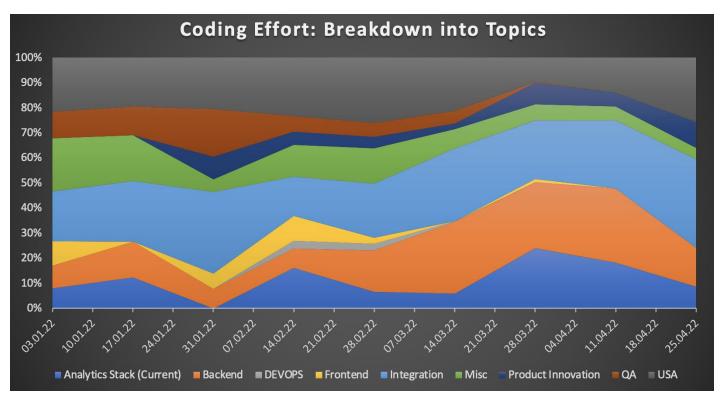
Data-Driven Analysis How Developer Time is Used

Are developer resources in terms of time and money spent according to business criticality?



Data-Driven Analysis How Much is Invested into Business Topics?

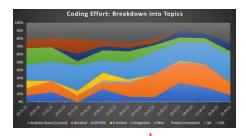
Quantifying and analyzing the overall development efforts over time.



Finding and fixing code that unnecessarily consumes developer time

Code Landscape

visualized as a "code city"



Navigating to the root cause of the problem



Thank You!



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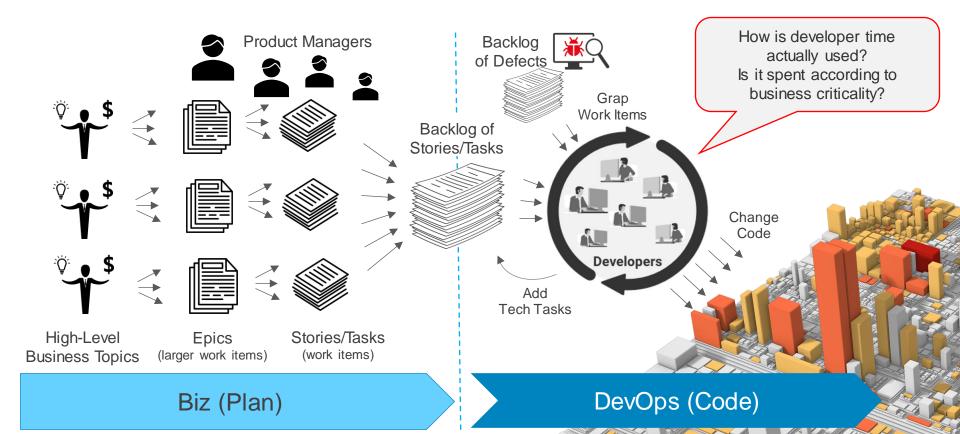


Statements and statements

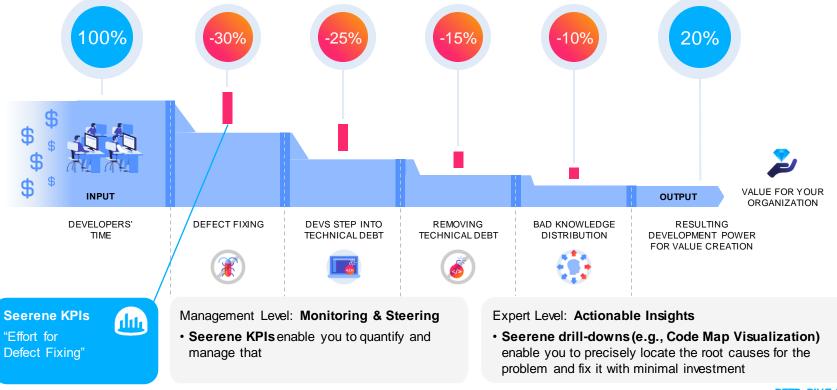
Backup Slides

Agile Methodology has a critical Blind Spot

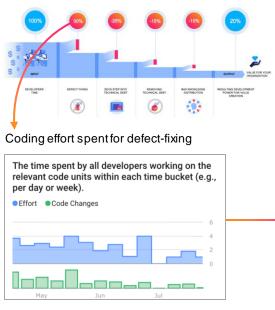
The process from requirements to code is a one-way street without back-flow information



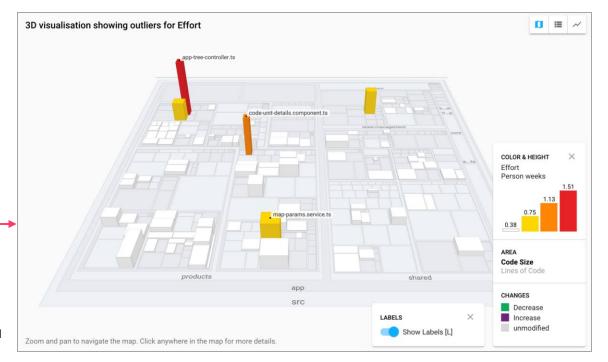
How to Get Extra Power Out of This.



Finding and Fixing Commonly Broken Code



- Reveal how much effort is spent for defect-fixing
- Locate code units that constantlyneed to be fixed
- \rightarrow Be able to effectively eliminate the problem



Efficiency Loss: Small Scope Case, Proof-of-Value (40 FTEs – 2 Software Systems)

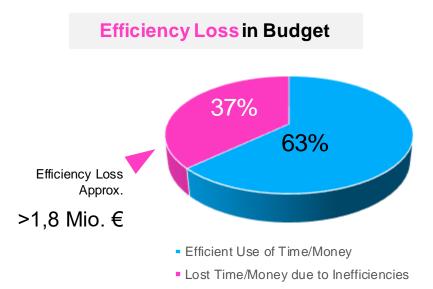
Efficiency Loss in FTEs



Efficiency Loss Approx.

15 FTEs* 2.250 Coding Days / Year**

*40 Total FTEs (2 Applications) **150 Coding Days/Year x 40 FTEs = 6.000 Coding Days in Total



Cost per FTE (All-in): 850,- € / Day (Central Europe) Budget p.a. approx.: > 5 Mio €



Convert Efficiency Losses into Extra Power

Next step after Proof-of-Value (Example Customer Scenario)

Three options for harvesting benefits with Seerene Analytics:

- 1. Small Scope: The 2 systems from PoV
- 2. Mid-Scale Rollout: Three departments with 8 systems
- 3. Full Rollout: Twenty major systems in the enterprise

