

Capability MapsThe Next Generation

Wolfgang Goebl



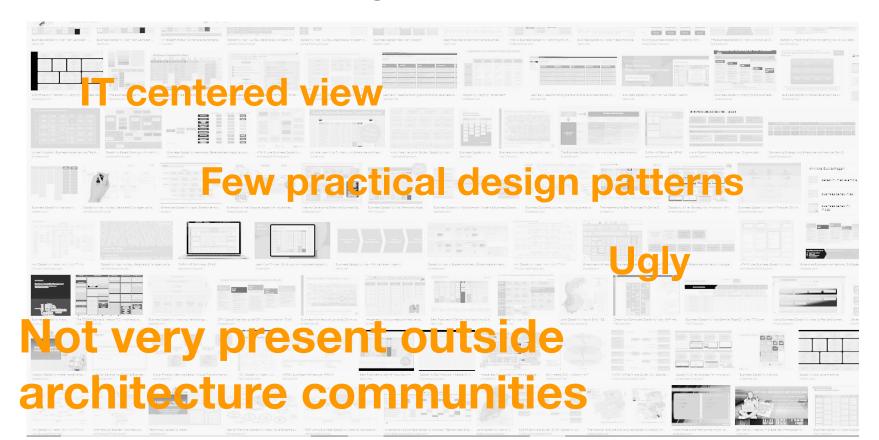


We help people create better enterprises.

What went wrong with capability maps?



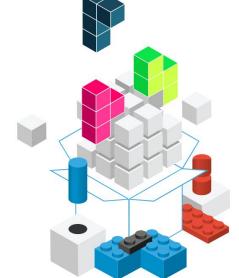
What went wrong with capability maps?



What we want to change...

Capabilities are central in organisation design, business components used as a modular "master structure" of the enterprise.

Organisational- and IT structures can be derived from this master structure.

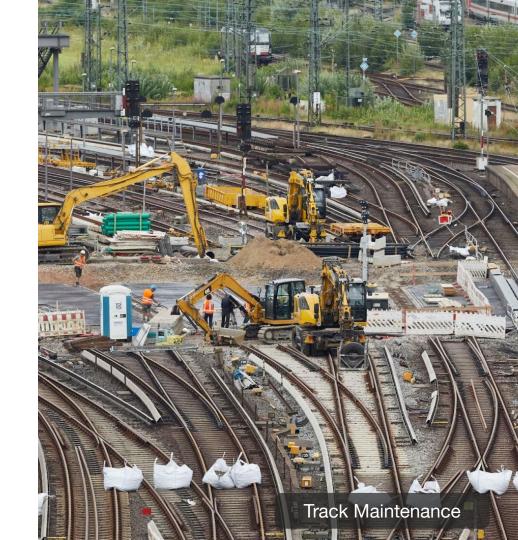


"Modular business components." Designed for Digital, J.Ross et.al



Capability

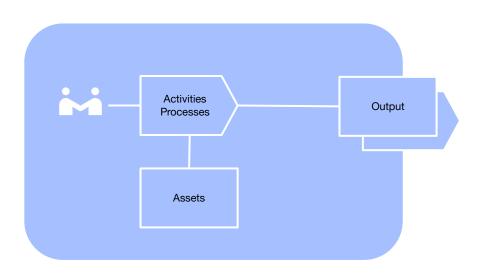
What we are able to do by orchestrating people and assets.





Capability

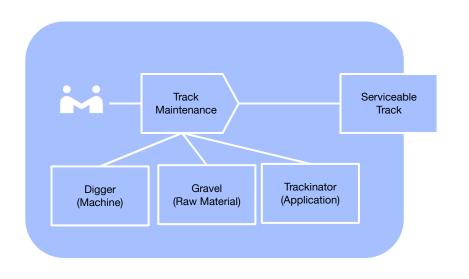
What we are able to do by orchestrating people and assets.





Capability

What we are able to do by orchestrating people and assets.



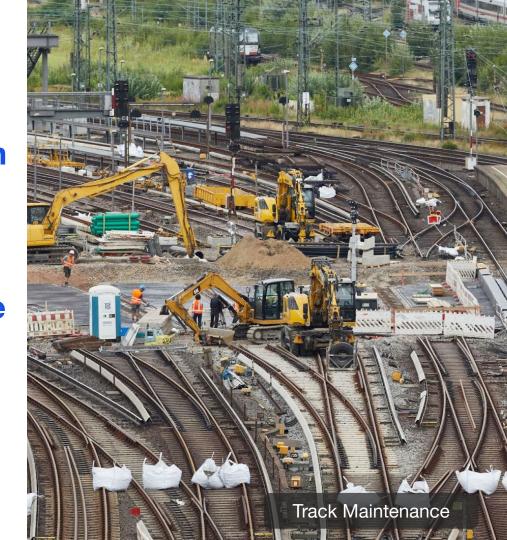




Needed for product creation

Well-defined outputs

Modularisation of enterprise



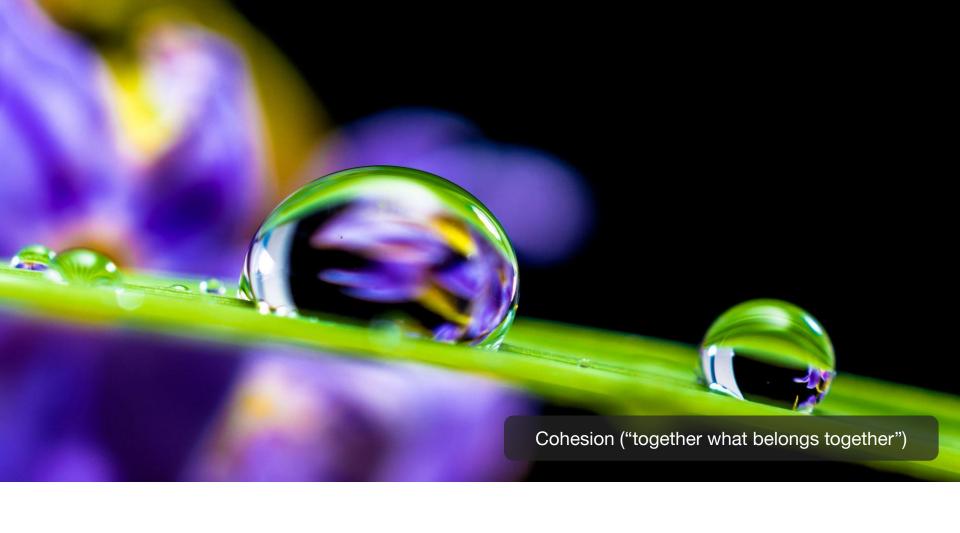




A structure we need and use to perform our capabilities.



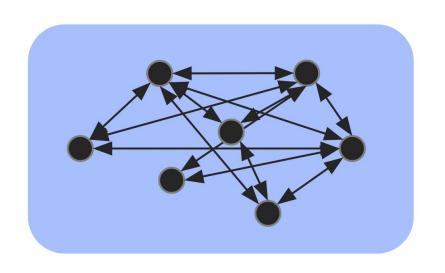




Cohesion

Together what belongs together

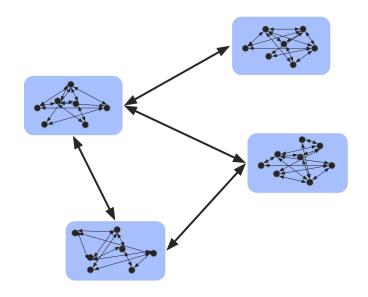
Many interactions between people and software applications within a capability





Loose coupling

Clear accountabilities
Avoid redundancy
Minimise interactions
between capabilities
Key to adaptivity



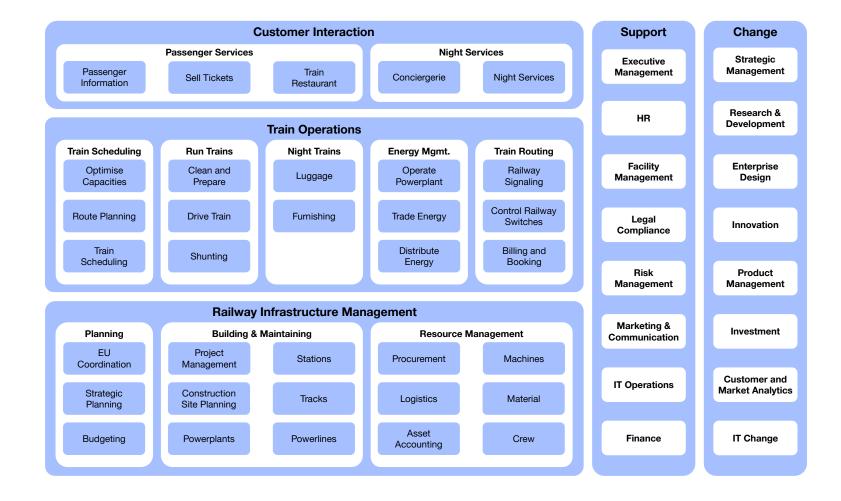


Building blocks

Well defined outputs
Clear boundaries
Design for adaptivity
Reuse







When are groupings "good"?

By color?

By size?

By shape?

By species?







"Belongs together" in an enterprise context

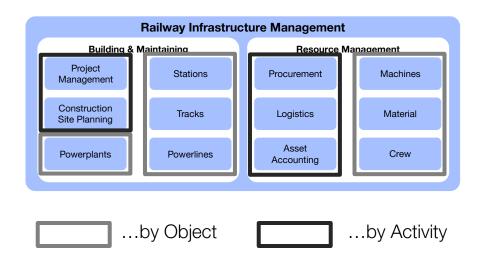




Make an intentional design decision based on specialisation.



"Belongs together" in an enterprise context



Make an intentional design decision based on specialisation.



Customer Facing

Get in touch with our customer

Sales via various channels
Customer services
Customer information

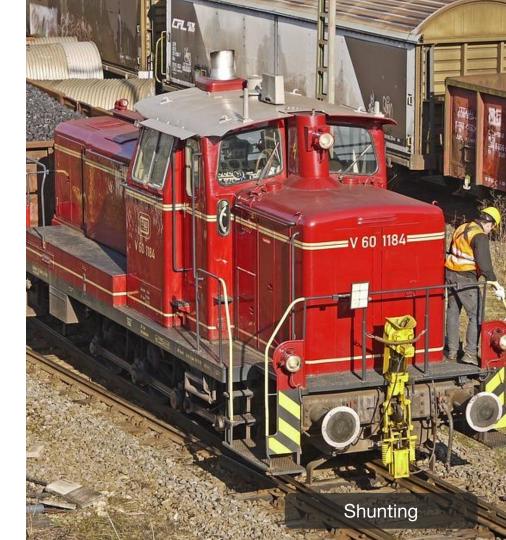






Create our products

Manufacturing
Warehousing
Logistics
Order processing







Needed for other capabilities

Marketing

Legal

Human resources

Accounting







Innovation

Innovate existing capabilities

Strategic management
Product design
Enterprise design

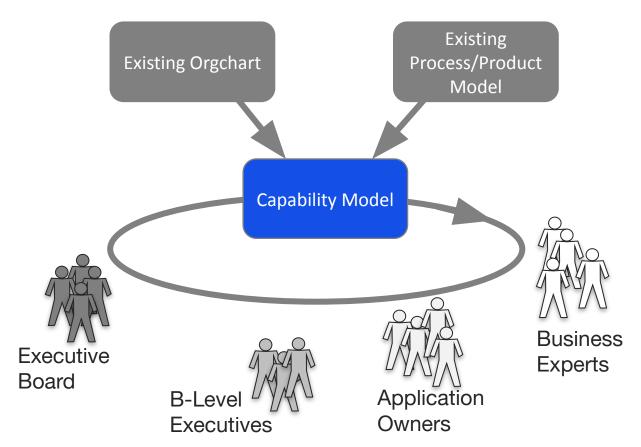




Support Customer Interaction Change **Passenger Services Night Services** Strategic Executive Management Passenger Train Management Sell Tickets Conciergerie Night Services Information Restaurant Research & HR Development **Train Operations Run Trains Night Trains** Train Routing Train Scheduling **Energy Mgmt.** Facility **Enterprise** Optimise Clean and Operate Railway Luggage Management Design Capacities Prepare Powerplant Signaling Control Railway Route Planning Drive Train Furnishing Trade Energy Legal Switches Innovation Compliance Billing and Train Distribute Shunting Scheduling Energy Booking Risk Product Management Management **Railway Infrastructure Management** Marketing & Planning **Building & Maintaining Resource Management** Investment Communication EU Project Stations Procurement Machines Coordination Management **Customer and** IT Operations **Market Analytics** Strategic Construction Tracks Logistics Material Planning Site Planning Asset IT Change Budgeting Powerplants Powerlines Crew Finance Accounting



Broad elicitation process to get existing capabilities





Support Customer Interaction Change **Passenger Services Night Services** Strategic Executive Management Passenger Train Management Sell Tickets Conciergerie Night Services Information Restaurant Research & HR Development **Train Operations Run Trains Night Trains** Train Routing Train Scheduling **Energy Mgmt.** Facility **Enterprise** Optimise Clean and Operate Railway Luggage Management Design Capacities Prepare Powerplant Signaling Control Railway Route Planning Drive Train Furnishing Trade Energy Legal Switches Innovation Compliance Billing and Train Distribute Shunting Scheduling Energy Booking Risk Product Management Management **Railway Infrastructure Management** Marketing & Planning **Building & Maintaining Resource Management** Investment Communication EU Project Stations Procurement Machines Coordination Management **Customer and** IT Operations **Market Analytics** Strategic Construction Tracks Logistics Material Planning Site Planning Asset IT Change Budgeting Powerplants Powerlines Crew Finance Accounting



Capability design patterns

Involve broad range of business experts Use common terminology Make products visible Use categories consciously **Clear outputs Avoid overlaps** Focus on essence (3-4 levels, ~100 capabilities) Align boxes well



Today

Capability maps use uncommon language and are used exclusively by Enterprise Architects.

Tomorrow

Capability Boards are co-designed by all relevant business experts and used throughout the company (for Management, Organisation, Finance, IT, Asset Management, ...)



What went wrong with capability maps?

"Always based on information objects" call everything "management" (product-, claim-, money-, track-, train,...)



Unnatural language



Capabilities present in IT only



Extremely weak biz & IT alignment



"Tennis Racket Management"?
"Tennis Ball Acceleration Management"?



What we want to change...

Based on highest cohesion

"Always based on information objects"



common

Unnatural language



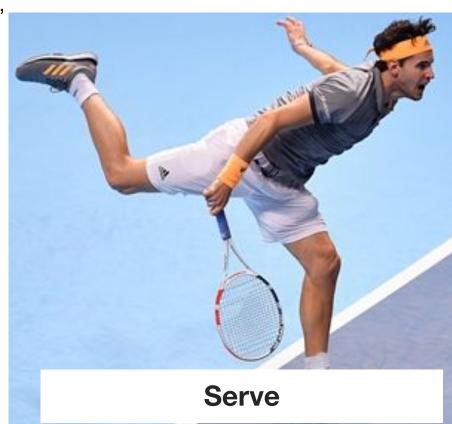
Capabilities present in IT only



Seamless busIT co-design

Extremely weak biz & IT alignment







Process

"Related activities our enterprise carries out."

Process "Track Lifecycle"



Process/Activity = actually performed capability

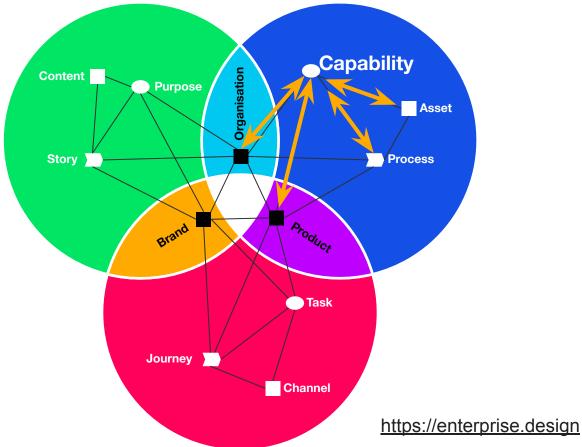
Only ONE way to design boundaries (caps, orga, activities, processes)
Seamless connection of process management & capabilities & org design

How to design capabilities? - Product oriented! **Startup** Capability Organisation Content **Purpose** Asset Story Process Product Task **Journey** Channel https://enterprise.design



How to design capabilities? - Driven by legacy

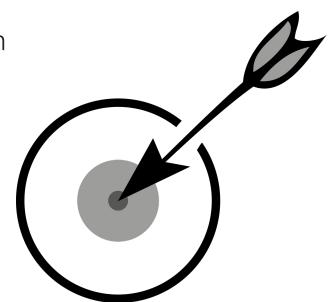
Existing Company





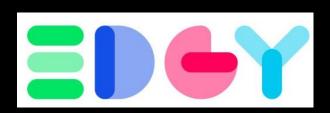
What you've learned in this section..

- Only ONE decomposition of the business
- Start from existing docs (org, processes, website..)
- > Run a broad elicitation process
- Enable business to own their capability design
- Design for highest cohesion
- Select categories with care
- Consolidate Process Models with Capabilities
- Layout for beauty



Business / IT Alignment -> BusinessIT Co-Design

Intersection Group is a Non Profit Association





www.enterprise.design

A set of connected Open Source tools for your Enterprise Design practice



Community and Events

Events for a global community of thinkers and practitioners



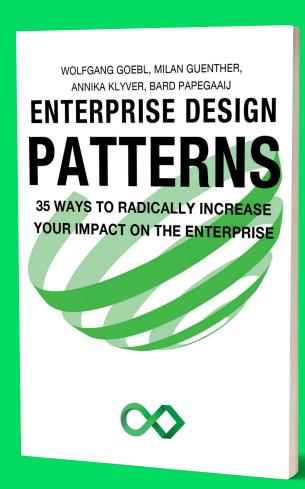
Learning and Knowledge

Publications, content, courses and digital tools with our partners



Patterns

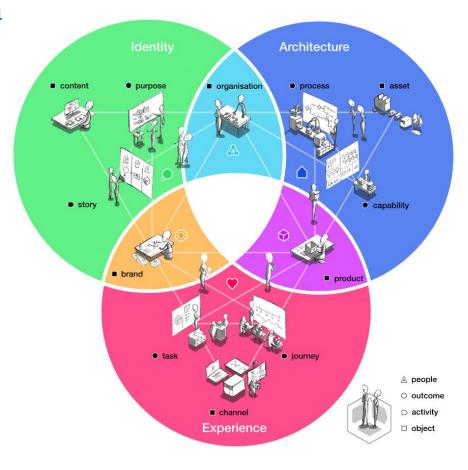
Journey to impact Behaviour patterns Practice patterns Creations patterns



enterprisedesignpatterns.com



https://enterprise.design





Upcoming Events

https://intersection.group/events



Capability Maps - the Next Generation! With Wolfgang Goebl

Webinar

June 12, 2023

Online

June 12th, 9am Berlin, Paris - In this webinar with Wolfgang Goebl we present the basic concepts of capability modeling.



EDGY 23

A language for collaborative Enterprise Design

III Webinar

June 19, 2023

Online

June 19th, 9am Berlin, Paris - Bard Papegaaj and Milan Guenther will host an EDGY 23 presentation.



Milky Way Enterprise Map

With Annika Klyver and Wolfgang Goebl

Webinar ...

June 26, 2023

Online

June 28th, 9am Berlin, Paris - Annika Klyver and Wolfgang Goebl show you how to bridge the gaps across identity, experience and architecture with Milky Way enterprise maps.

Details

Register



Register



Register



Intersection Conference: September 18-20

9th global conference on Enterprise Design

Conference

E September 18-20, 2023, 09:00-17:00

Vienna, Austria

9th Conference on Enterprise Design



EDGY User Day: September 20

Learn from the cases of EDGY practitioners!

Conference

III September 20, 2023, 09:00-17:00

Vienna, Austria

Learn from the cases of EDGY practitioners!



EDGY Language Foundations: Enterprise Design Facets and Elements October

Online cohort-based course

Training

Cotober 12 to November 14, 2028, Tuesday & Thursday / 4pm-5:30pm Berlin / 10am-11:30am Montréal



https://intersection.group/events/intersection23



INTERSECTION23

Vienna, September 18-19, 2023







Thank you!

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