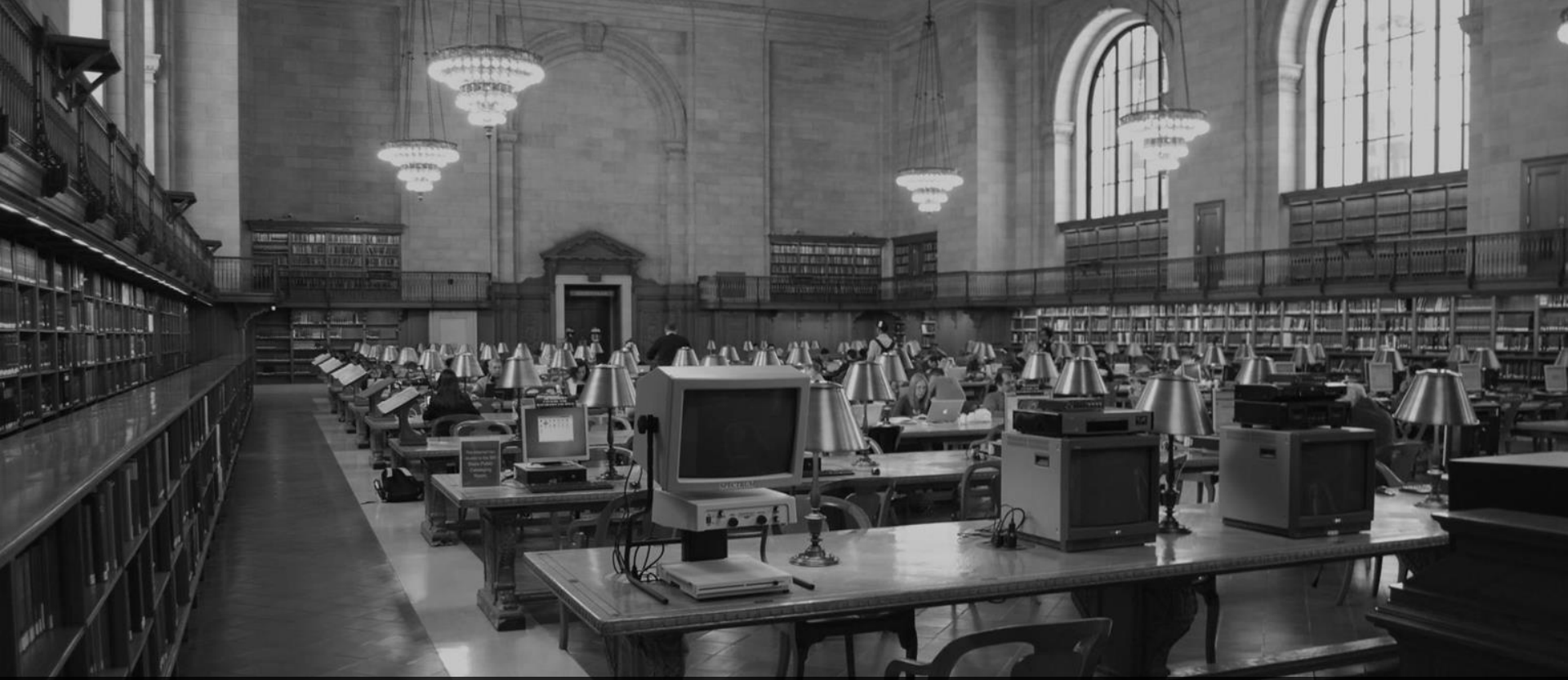

RAP – Events & Side Effects

Webinar, 26.9.2025, 10:00 Uhr

Johann Fößleitner

Senior Consultant at Cadaxo

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Beratungsschwerpunkte

- Konzeption & Management von Entwicklungsprojekten
- Qualitymanagement & Performanceoptimierung
- Clean Code
- Fiori, Fiori Elements & ABAP RESTful
- S/4HANA Custom Development

- **SAP Champion**

Domi Bigl

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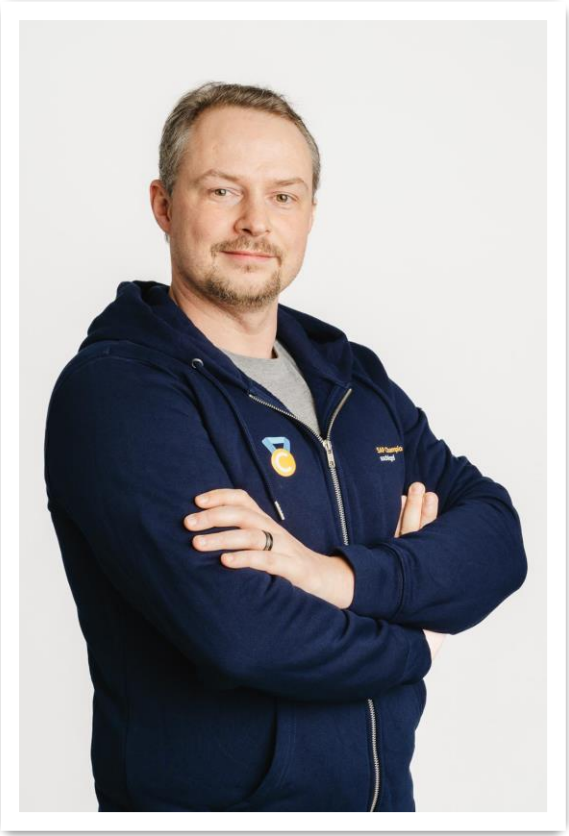
Beratungsschwerpunkte

- Konzeption & Management von Entwicklungsprojekten
- Qualitymanagement & Performanceoptimierung
- ABAP Units
- SAP Fiori, SAP UI5

- **ABAP, UI5, … Champion**



Sören Schlegel

SAP Development Architect

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Themenschwerpunkte

- Konzeption & Management von Entwicklungsprojekten
- SAP Architektur moderner Anwendungen
- ABAP RAP und S/4HANA Entwicklung
- SAP CDS, OData und Cloud

- **SAP Champion**

cadaxo

- **Consulting, Workshops, Coaching**
- ABAP, CDS, RAP, S/4 Extension, Code Migration, …
- https://www.cadaxo.com

Brandeis Consulting

- **Consulting, Schulungen, Workshops**
- ABAP, CDS, RAP, SQLScript, …
- https://www.brandeis.de

Community News

- **Devtoberfest 2025**
  - 29. September – 24. Oktober 2025
  - Educational Content, Fun Activities & Contest!
    - Montag: **ABAP**
    - Dienstag: **Tooling & Frontend**
    - Mittwoch: **Integration**
    - Donnerstag: **Data & AI**
    - Freitag: **CAP**
  - SAP Community Group Devtoberfest
  - Devtoberfest Event Calendar

- **SAP CodeJams – Hamburg**
  - 25. September 2025 – ABAP Cloud & RAP
  - 26. September 2025 – Generative AI
  - 26. September 2025 – CAP & Generative AI

- **SAP CodeJam – Porto**
  - 26. September 2025 – AI & SAP HANA Cloud

- **SAP CodeJam – CAP & SAP HANA Cloud**
  - 7. Oktober 2025
  - **SAP Cloud Application Programming Model with SAP HANA Cloud**
    - Coach: Kevin Riedelsheimer
  - **Siemens Healthineers Office, Erlangen**

- **SAP CodeJam – Service integration with CAP**
  - 10. Oktober 2025
  - **Service integration with the SAP Cloud Application Programming Model**
    - Coach: DJ Adams
  - **SAP Labs Munich**

- **SAP Inside Track Hamburg**
  - **When**: 27. September 2025
  - **Where**: SAP Deutschland SE & Co. KG
  - Speaker: Nicolai Schönteich, Fabian Lehmann, …
  - Topics:
    - BTP, CAP, SAP ERP Cloud, AI Ethics, …

- **SAP Inside Track Rome**
  - **When**: 3. Oktober 2025
  - **Where**: Rom
  - Topics:
    - BTP, Fiori Elements, dox42, …

https://community.sap.com/t5/rome-events/sap-inside-track-rome-2025/ev-p/14102611

- **SAP Inside Track Munich 10th edition**
  - **When**: 11. Oktober 2025, Samstag
  - **Where**: SAP Labs Munich, Garching bei München

  - Freitag, Pre-Evening Event
  - Samstag, Post-Evening Event
  - SAP CodeJam (Freitag)

  - https://community.sap.com/t5/m%C3%BCnchen-blog-posts/sitmuc25-registration-is-now-open/ba-p/14220426

- **ABAP CodeRetreat - Zürich**
  - **When**: 27. September 2025
  - **Where**: EMINEO, Pfingstwidstrasse 106, Zürich
    - Coaches: Damir Majer, Christian Drumm, Martin Jonen

https://www.meetup.com/abap-community/events/310711817/

- **ABAPConf 2026, Amsterdam**
  - 9. – 10. März (Montag, Dienstag)
  - 11. März Workshops
  - https://abapconf.org/
  - Hinweis: Änderungen und Absagen der Veranstaltung sind vorbehalten.

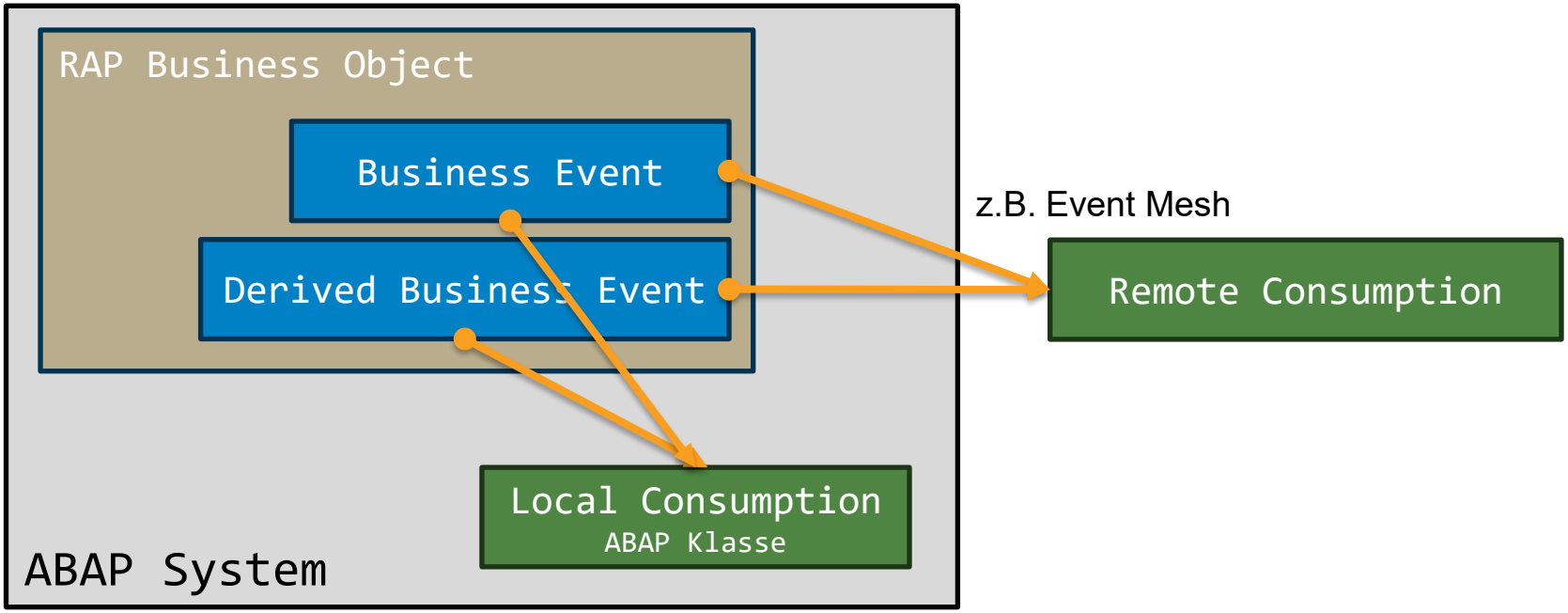
https://ankerkopf.de/sapfluencer/

https://software-heroes.com/

Unsere bisherigen RAP Webinare

RAP Events

RAP Business **Events** bieten die Möglichkeit einer „leichtgewichtigen“, entkoppelten Prozessintegration basierend auf standardisierten und stabilen APIs.


RAP Business Object
Business Event
Derived Business Event
z.B. Event Mesh
Remote Consumption
Local Consumption
ABAP Klasse
ABAP System

```
event EventName [[deep] parameter ParamName];

managed event DerivedEventName on RefEvent parameter ViewEntityName;
```

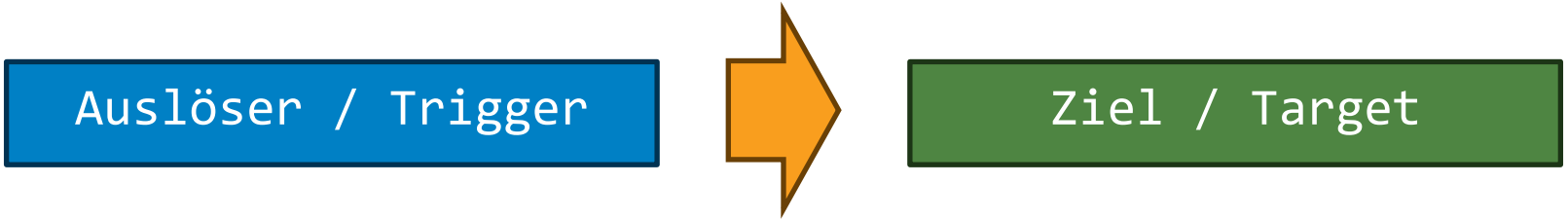
- **RAP Events**
  - RAP Business Events (only remote)
    - Verfügbar ab 7.57, S/4 HANA 2022
  - RAP Derived Events
    - Verfügbar ab 7.58, S/4 HANA 2023

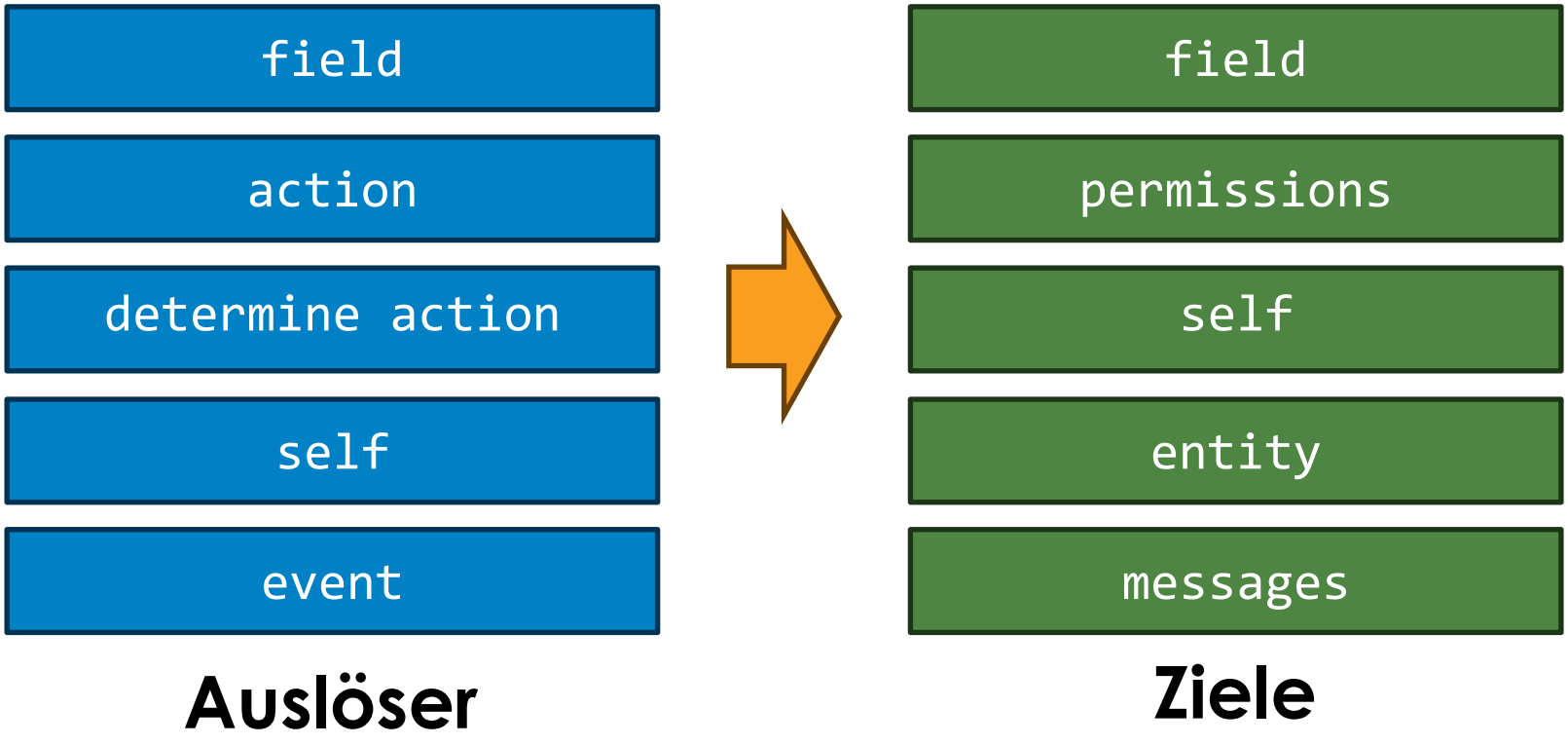
RAP Side Effects

Mit **Side Effects** können Abhängigkeiten zwischen BO-Eigenschaften definiert werden, die ein **Neuladen der betroffenen** Eigenschaften auslösen.

- **RAP Side Effects**
  - Speziell für ABAP RAP & Fiori Elements
  - Ab 7.58, BTP ABAP, S/4 2023
- **Side Effects**
  - Allgemeines Konzept (Annotations) um bei einer Änderung andere Felder oder UI-Bereiche zu beeinflussen
    - UI5, CAP, Fiori Elements

- **RAP Side Effects**
  - Definieren, welche Daten (Targets) nach einer Änderung (Trigger) neu geladen werden.




field
action
determine action
self
event
Auslöser
field
permissions
self
entity
messages
Ziele

```
side effects { field MyField affects Targets }

side effects { action MyAction affects Targets }

side effects { determine action MyDetermineAction
               executed on Sources affects Targets }

side effects { $self affects Targets }

side effects { event MyEvent affects Targets }
```

```
side effects { field MyField affects field MyField1, MyField2 }

side effects { field MyField affects permissions …}

side effects { field MyField affects $self }

side effects { field MyField affects entity _MyAssoc }

side effects { field MyField affects messages }
```

- **RAP Side Effects**
  - Verfügbar ab 7.58
    - SAP BTP ABAP, S/4 HANA 2023
    - Vor 7.58 deklarativ über Annotations (=Side Effects)
  - Managed und Unmanged

RAP Events & Side Effects

Danke!

Nächstes Webinar:
28. November 2025 10:00 Uhr

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