LeanIX

EA 19

EA CONNECT DAYS 2019

Europe's Leading Enterprise Architecture Conference

Lean42 Deloitte. ITM SIGNAVIO

Mastering Increasingly Complex Integration Architecture

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Today's agenda

- Setting the Integration architecture scene
- How to model Interfaces in LeanIX
- Examples how to foster discussions regarding your Integration Architecture

The IT world will get more complex and businesses need to be fast

Number of point-to-point relations

- Landscapes are already complex: >2,000 applications (14%)
- Microservice architecture increases complexity: 29% agree

Shift to Cloud and virtualization

- Cloud architecture increases IT complexity: 59% agree
- # of cloud applications will still increase by 26% → 38%

Business transformation towards more agility and efficiency

- From Project IT to Product IT
- Continuous everything

Sources: LeanIX 2019 EA Report; Goldman Sachs Global Investment Research, March 2019; Brand Post 2019

Our customers heavily make use of LeanIX to manage their integration architecture

Total number of **interfaces in LeanIX**: 76,205

Average number of **interfaces per customer**: 328 (Advanced: 152, Ultimate: 611)

Highest number of interfaces of one customer: 7,981

Average ratio of **applications to interfaces**: 2:0.8

Fewest unique log-ins per 1 view of the **interface circle map**: 0.9

Fewest unique log-ins per 1 view of the **data flow**: 1.2

Source: LeanIX usage statistics

LeanIX helps you to answer the pressing questions around Integration Architecture

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Stakeholder questions

CIO

- How are our applications interconnected?
- What prevents us from phasing out applications?
- Are certain applications a point of failure due to their high number of interfaces?

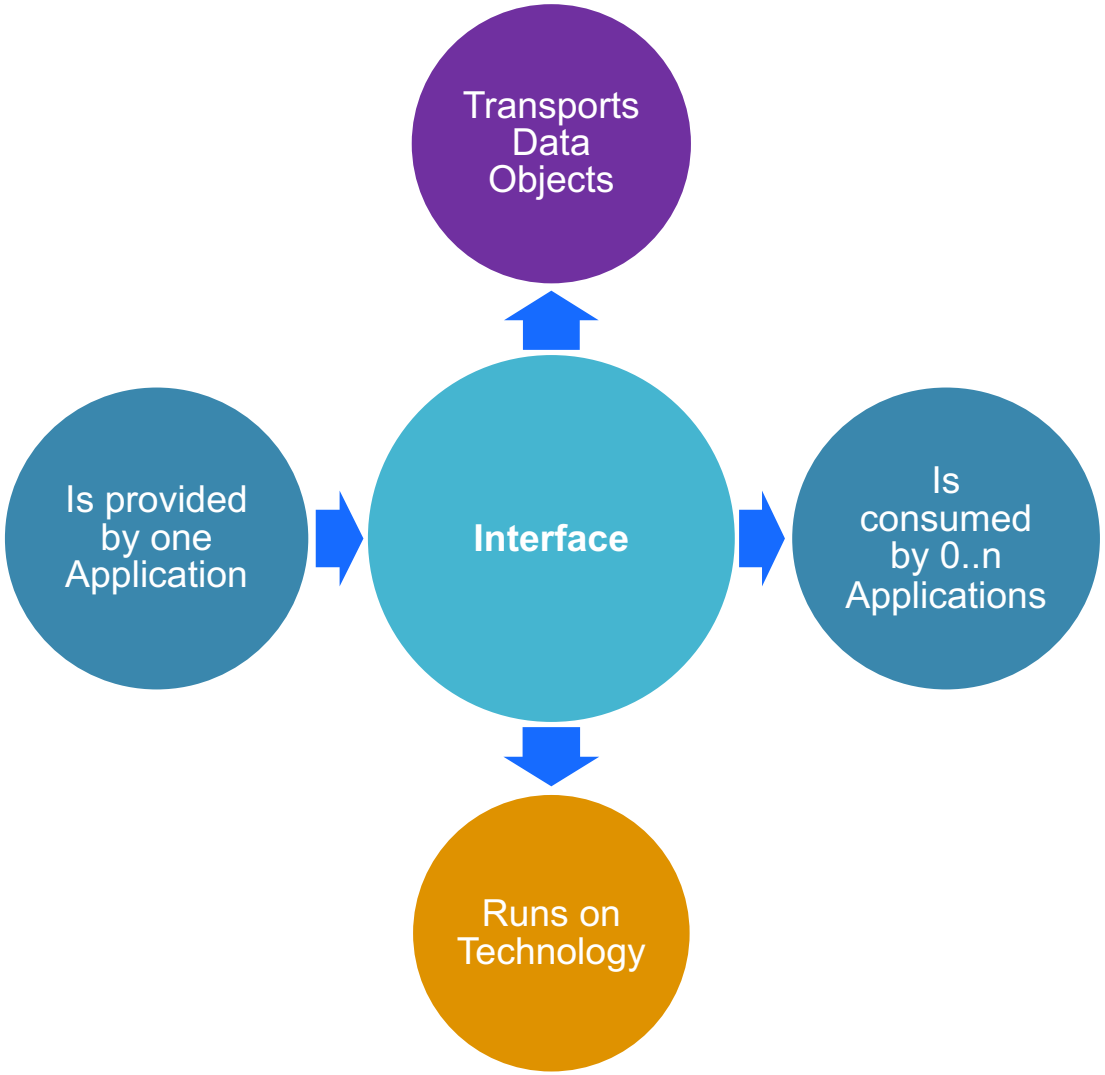
Business Partner

- How critical are the applications in my data flow?
- Which applications handle critical / personal data?
- How does my current interface landscape compare to my future state?

IT Delivery

- How are applications interacting with each other and how often?
- Is the data flow compromised by outdated applications or technologies?
- How reliable are my integrations?

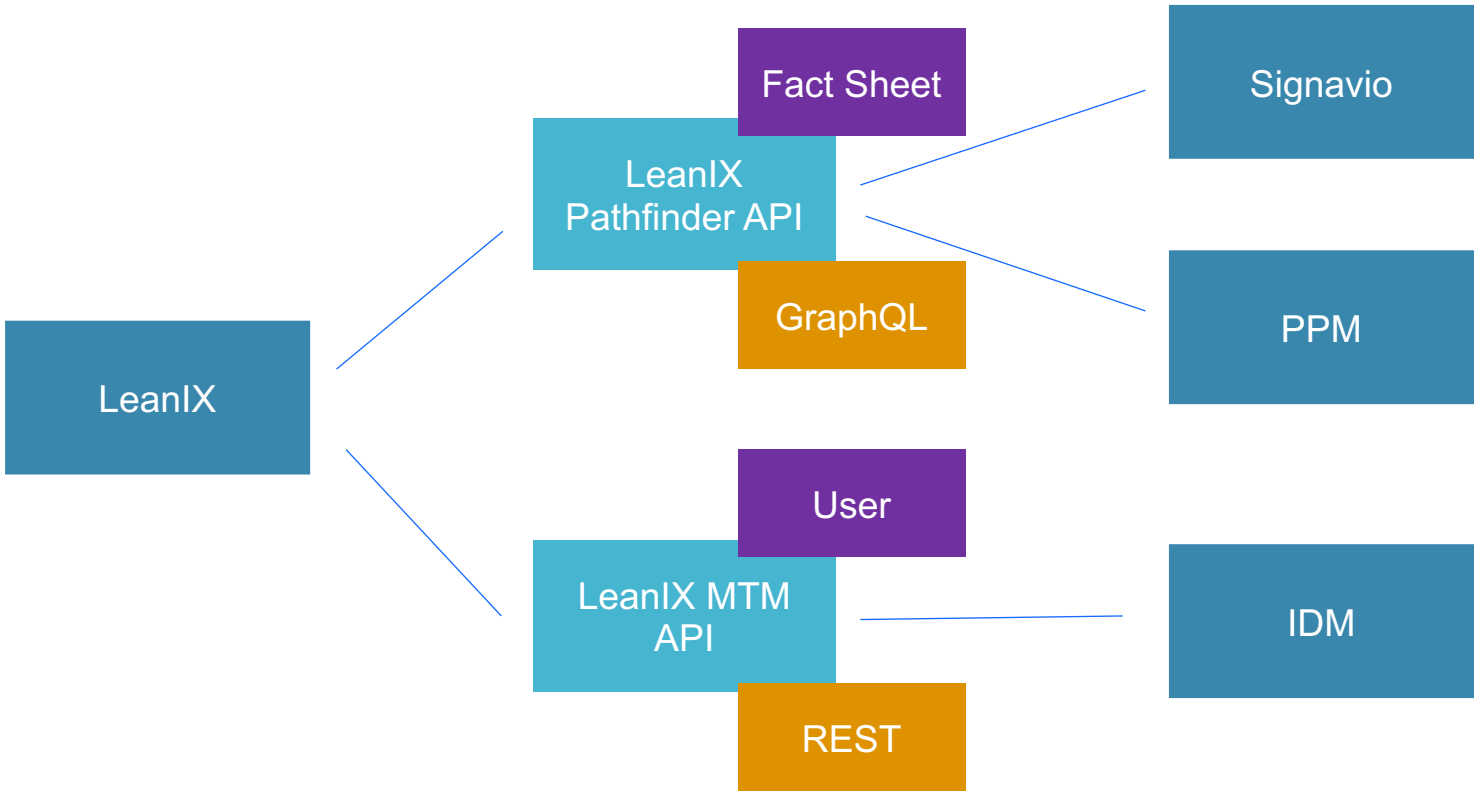
With a business-driven view on interfaces LeanIX enables data-driven impact analysis



LeanIX guidance:

- **Business first**: Start with top-level view, only drill-down where this creates value
- **End-to-end data flow:** In most cases, use e.g. middleware as technology to focus on end-to-end data flow
- **Define Ownership:** Providing Application “owns” the interface (e.g. offers the API)
- **Use attributes:** Data Flow Direction, Frequency and other aspects can be added easily

Example 1: LeanIX APIs



LeanIX guidance:

- **Clear ownership:** APIs mostly belong to one system and have a well-defined lifecycle
- **Use IT Components for technology** in order to align with use cases like Standard Management or Technology Ownership
- If the receiving system is external, but needs to be managed: **Include as Application with tag "External"**

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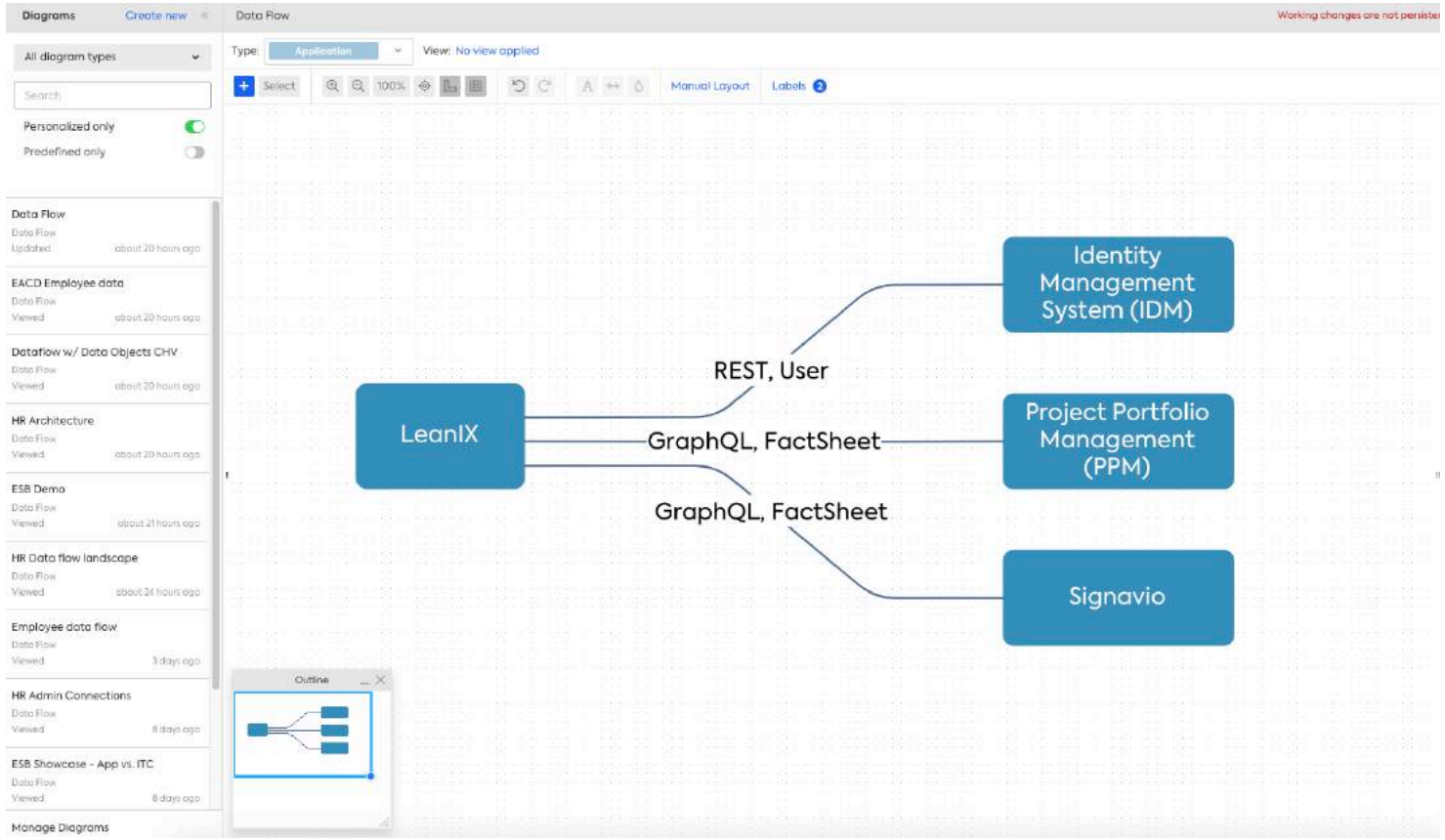

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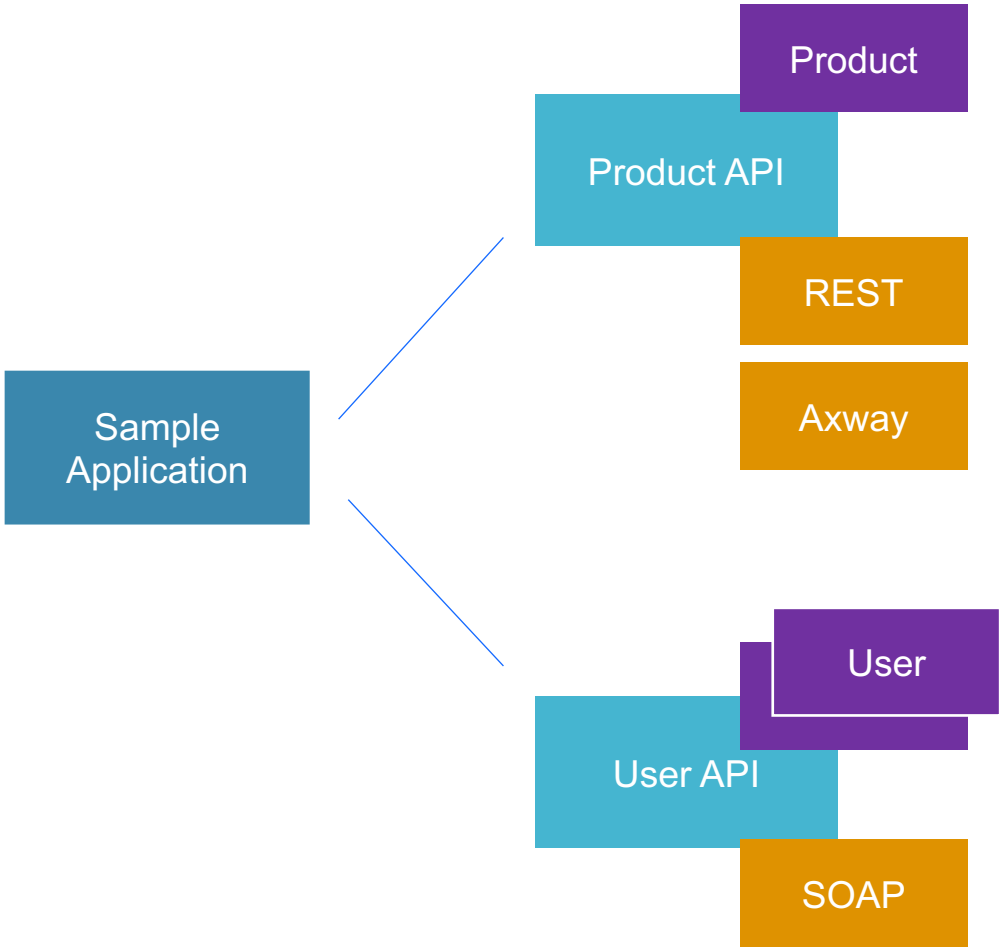
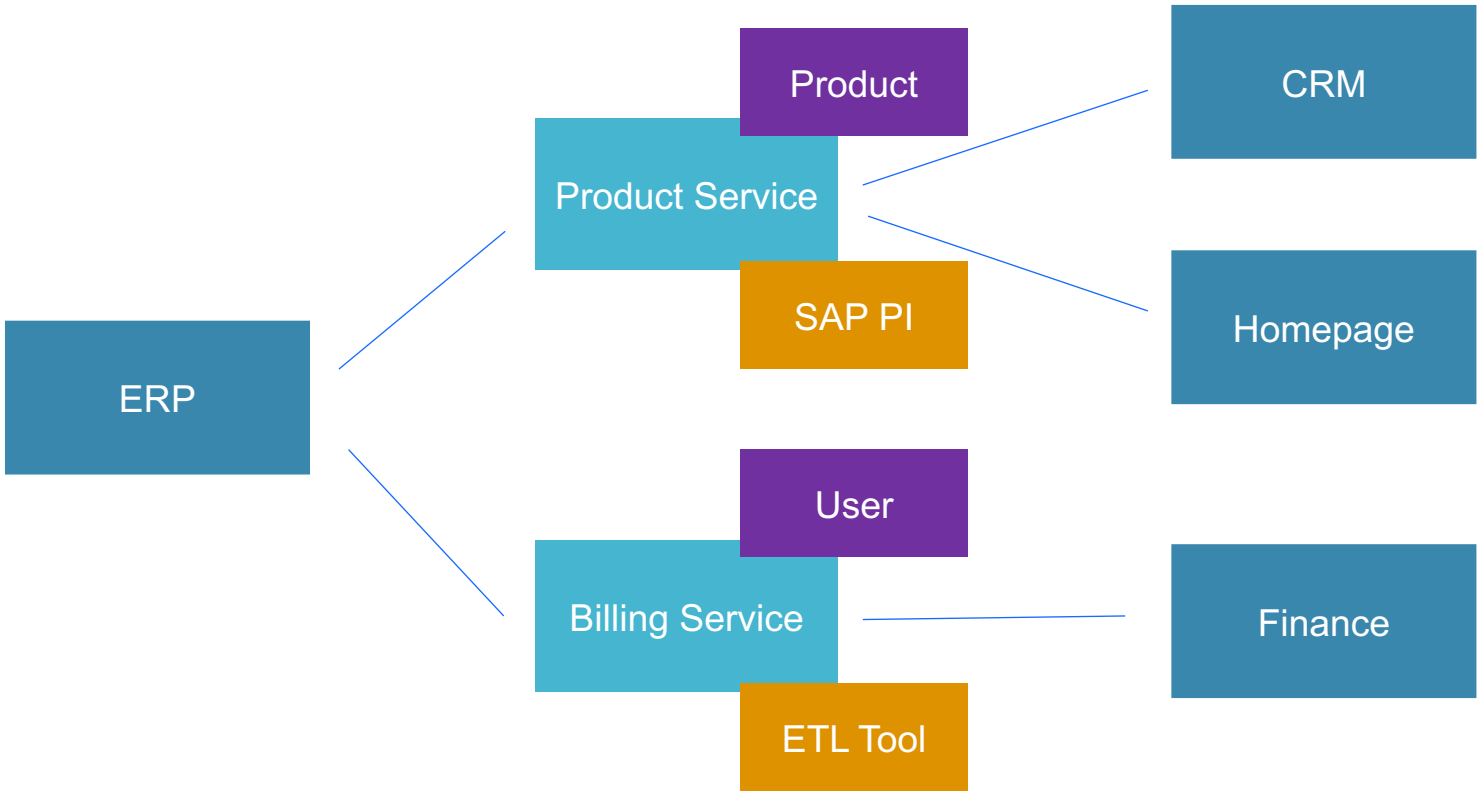
Example 2: Open APIs



LeanIX guidance:

- **Include APIs without consumer** if you don't know them / don't want to know them
- **Include more than one IT Component or Data Object** if this provide extra value (e.g. which interfaces are already managed by an API Management tool)

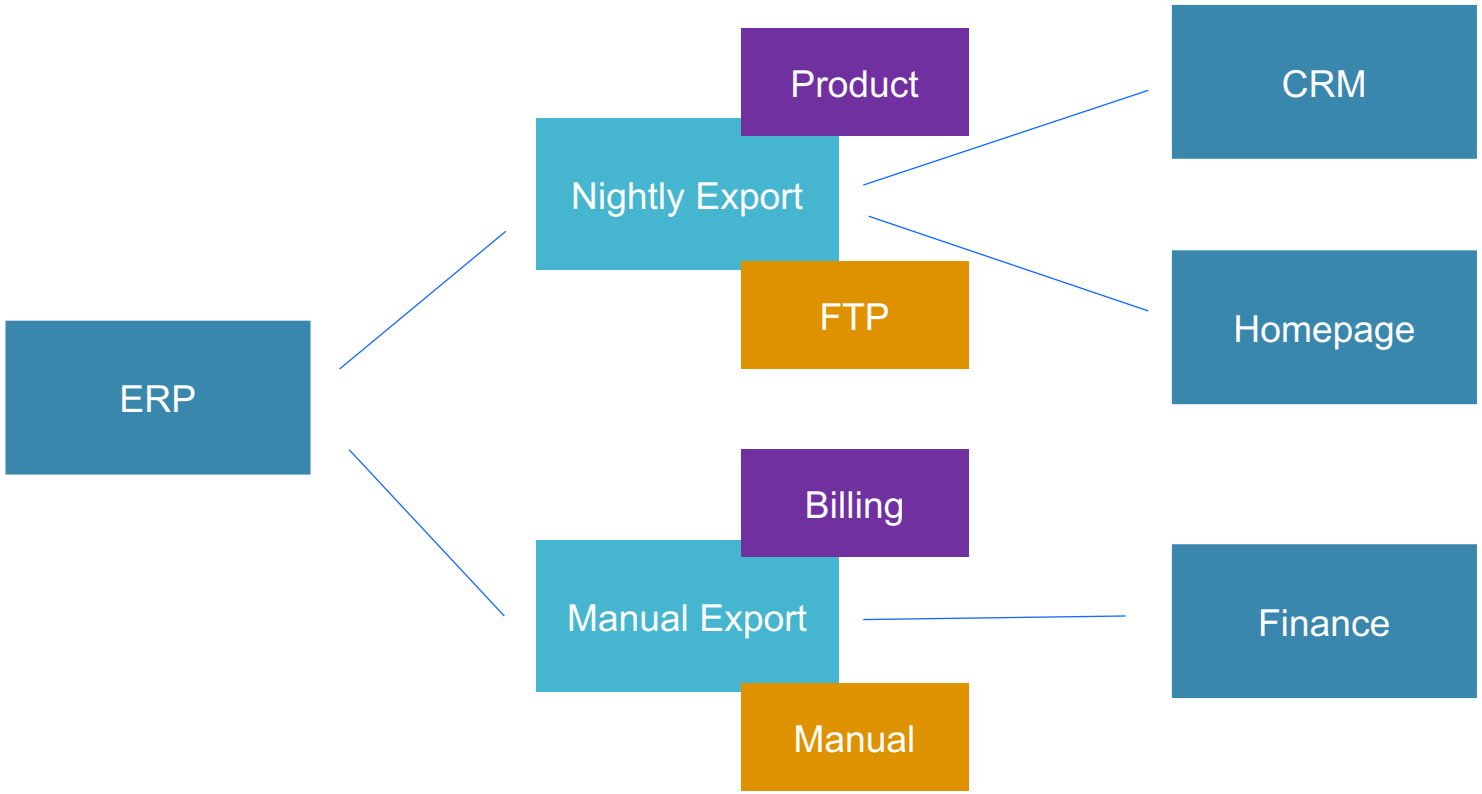
Example 3: Middleware / ETL tools



LeanIX guidance:

- **In most scenarios, middleware should not be an Application** in order to focus on end-to-end data flow
- **Decompose the IT Component** (e.g. Parent / Child) to include more detailed information, e.g. on the consumed middleware module
- **Consider to integrate** with the middleware (e.g. SAP PI) as source for interfaces

Example 4: Legacy & Manual interfaces

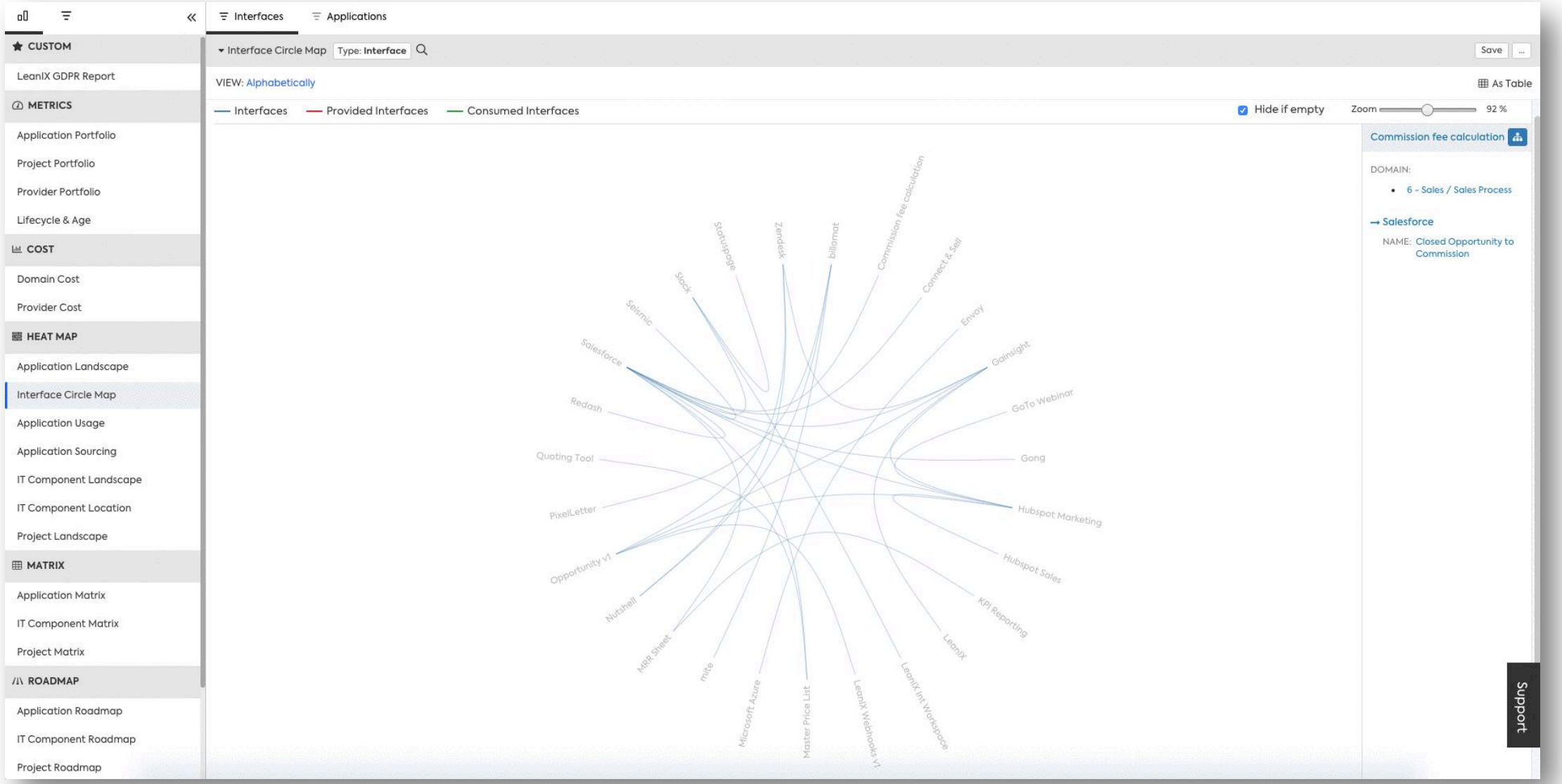


LeanIX guidance:

- **For legacy interfaces (FTP, CSV export), it's important to define the owning application** – often responsibilities provide good information
- **Include manual interfaces** if they are important from a business point of view – this information is valuable when **consolidating** or starting your next **project**

Example 1 : LeanIX runs LeanIX

Start with an overview of your connections, then drill down to your specific needs



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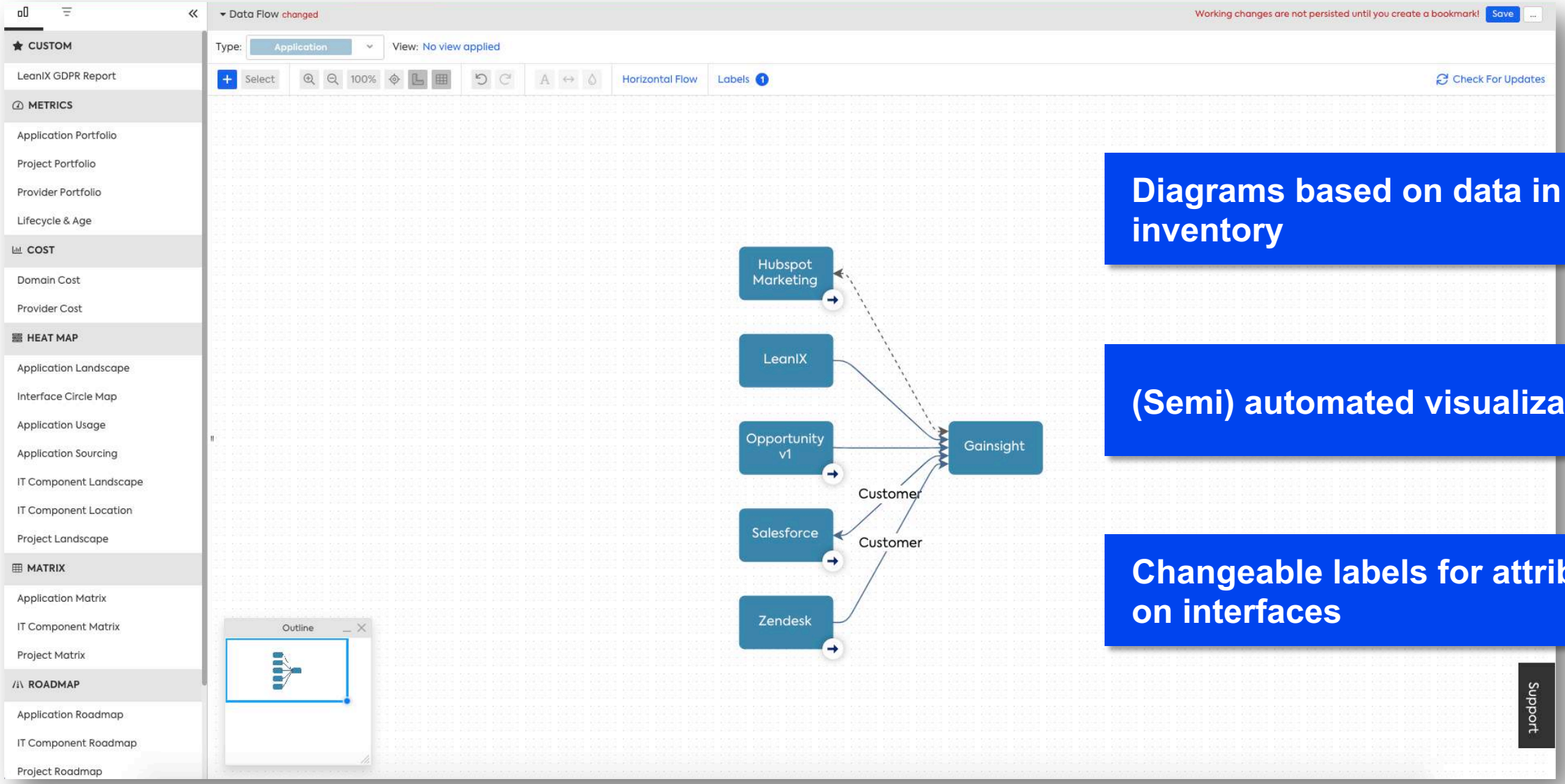
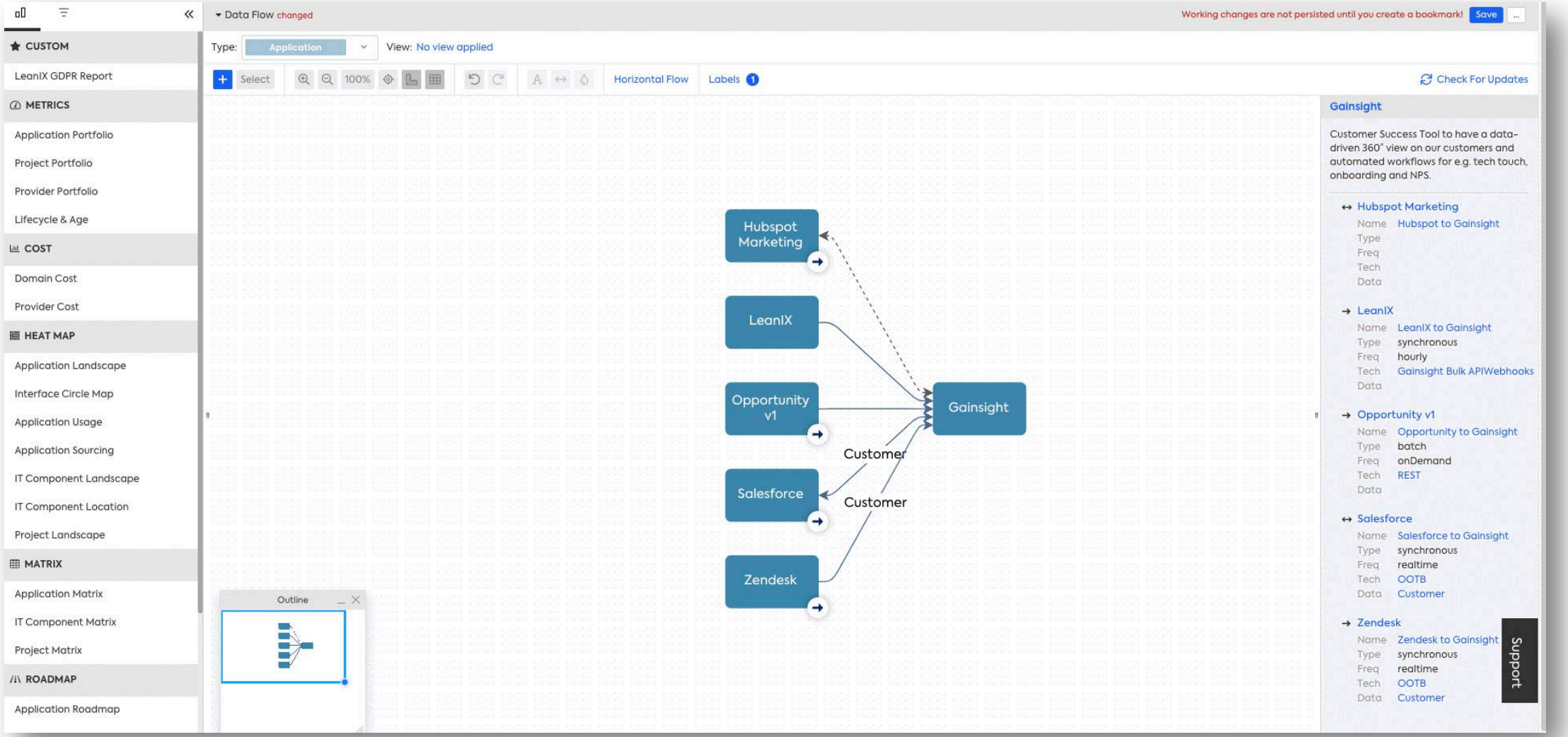


Diagrams based on data in your inventory

(Semi) automated visualization

Changeable labels for attributes on interfaces

Adding business context to your data flows lets you generate additional value



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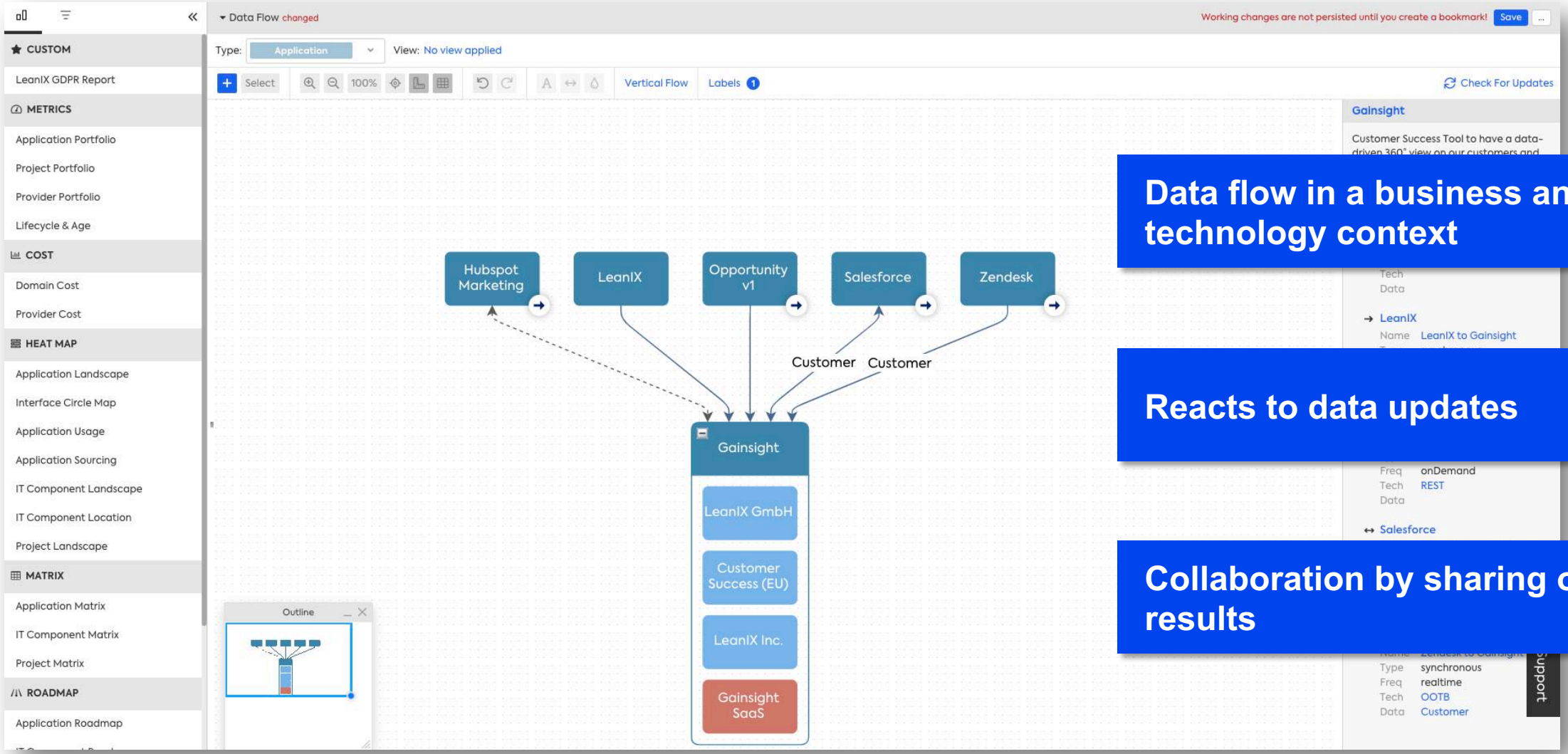


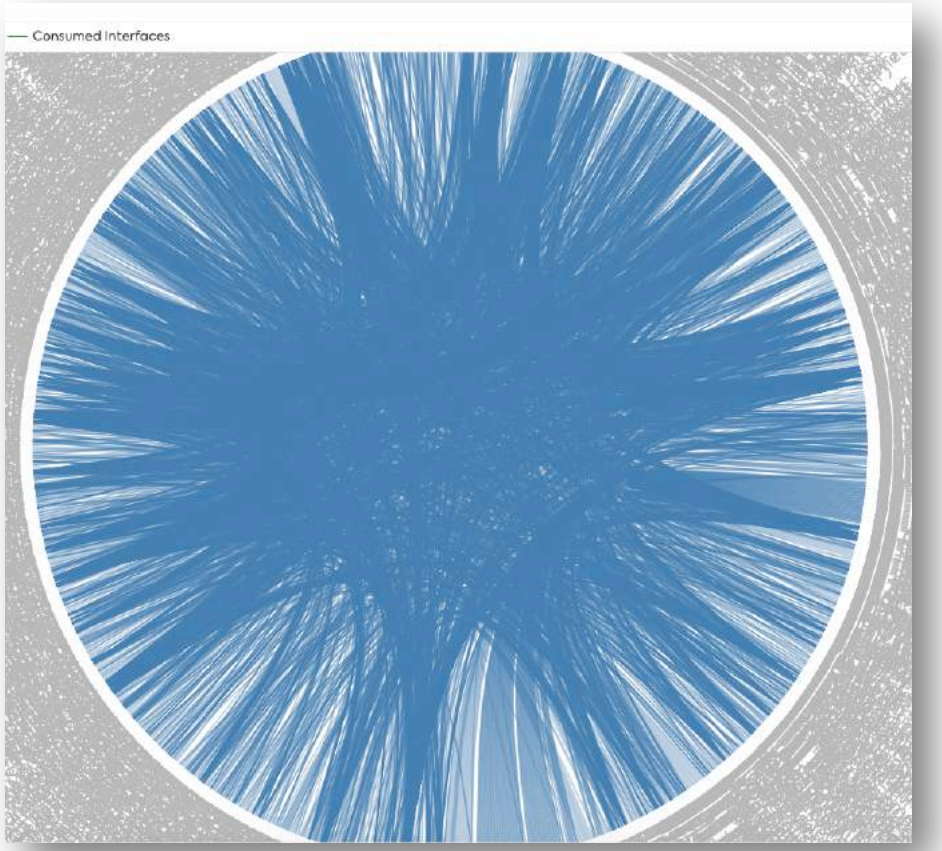
Data flow in a business and technology context

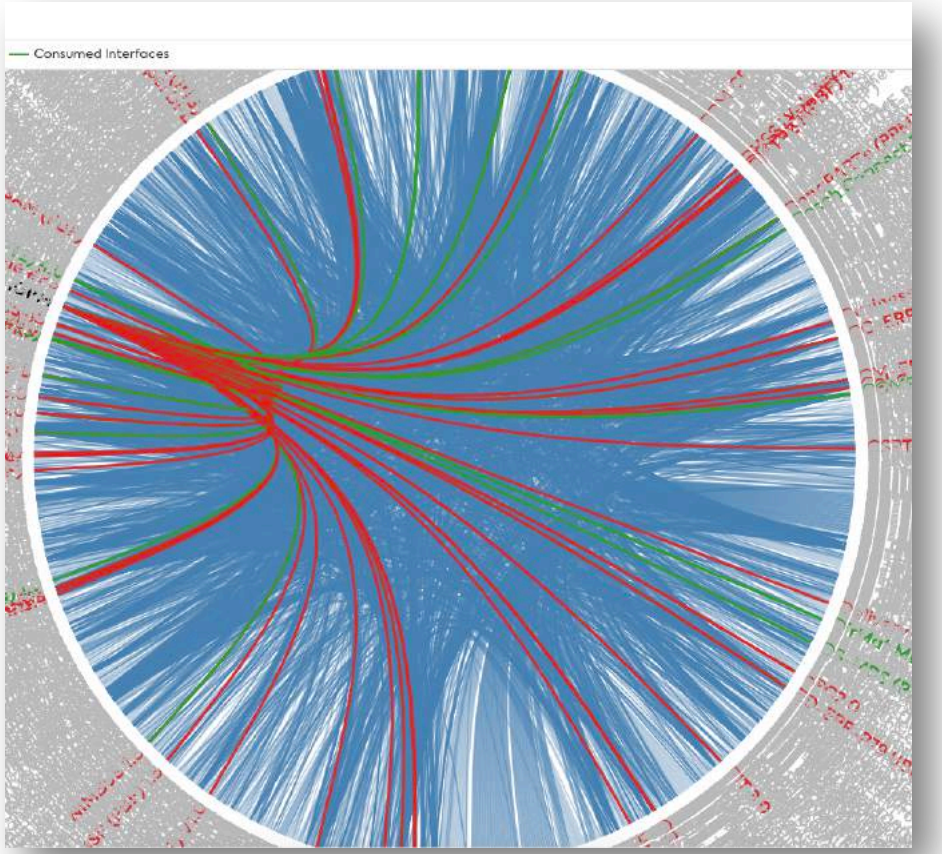
Reacts to data updates

Collaboration by sharing of results

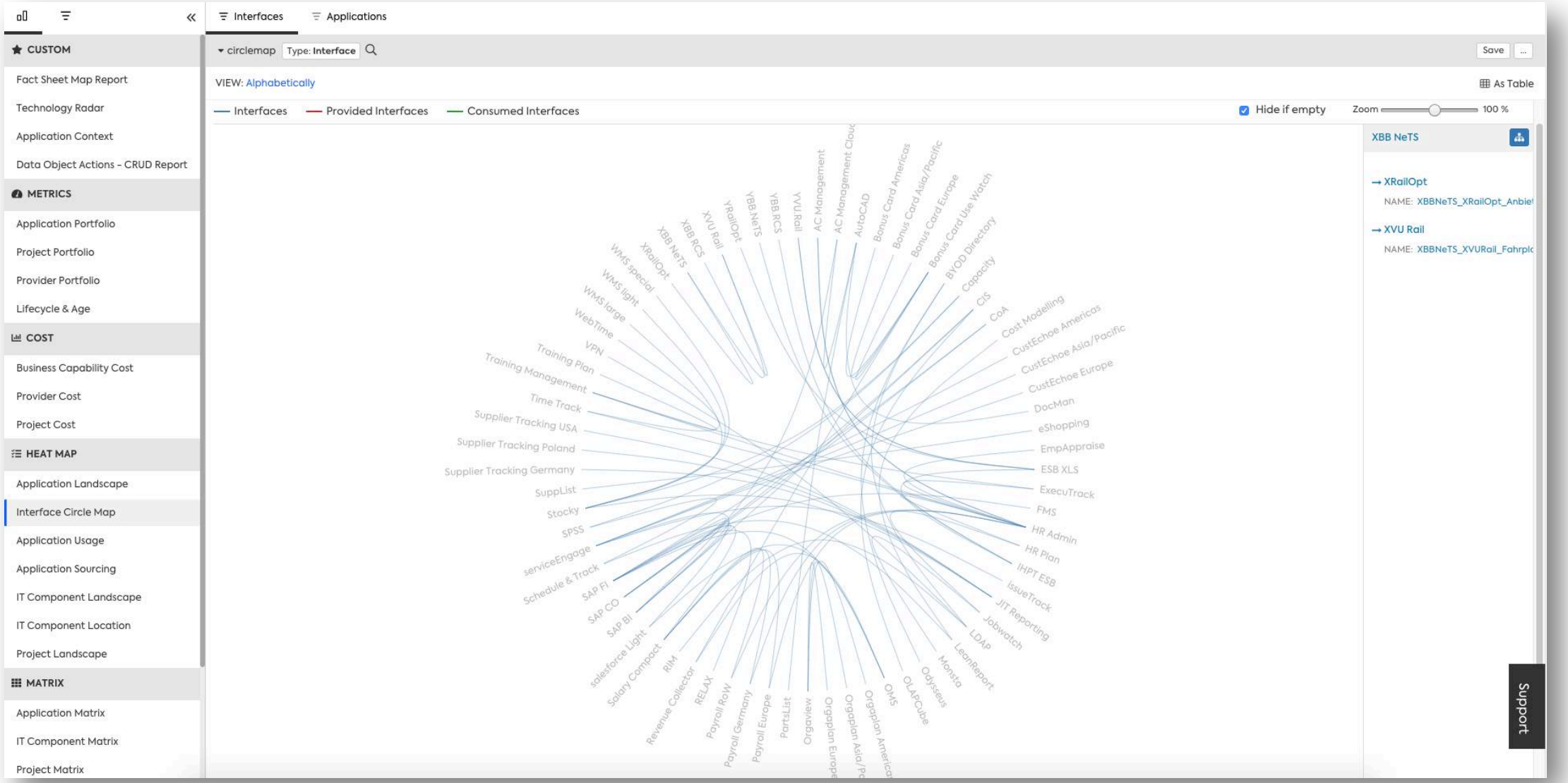
Example 2 : Identify critical / personal data

You might feel lost in the complexity of your integration architecture





With a few clicks you can filter the information down and reduce complexity



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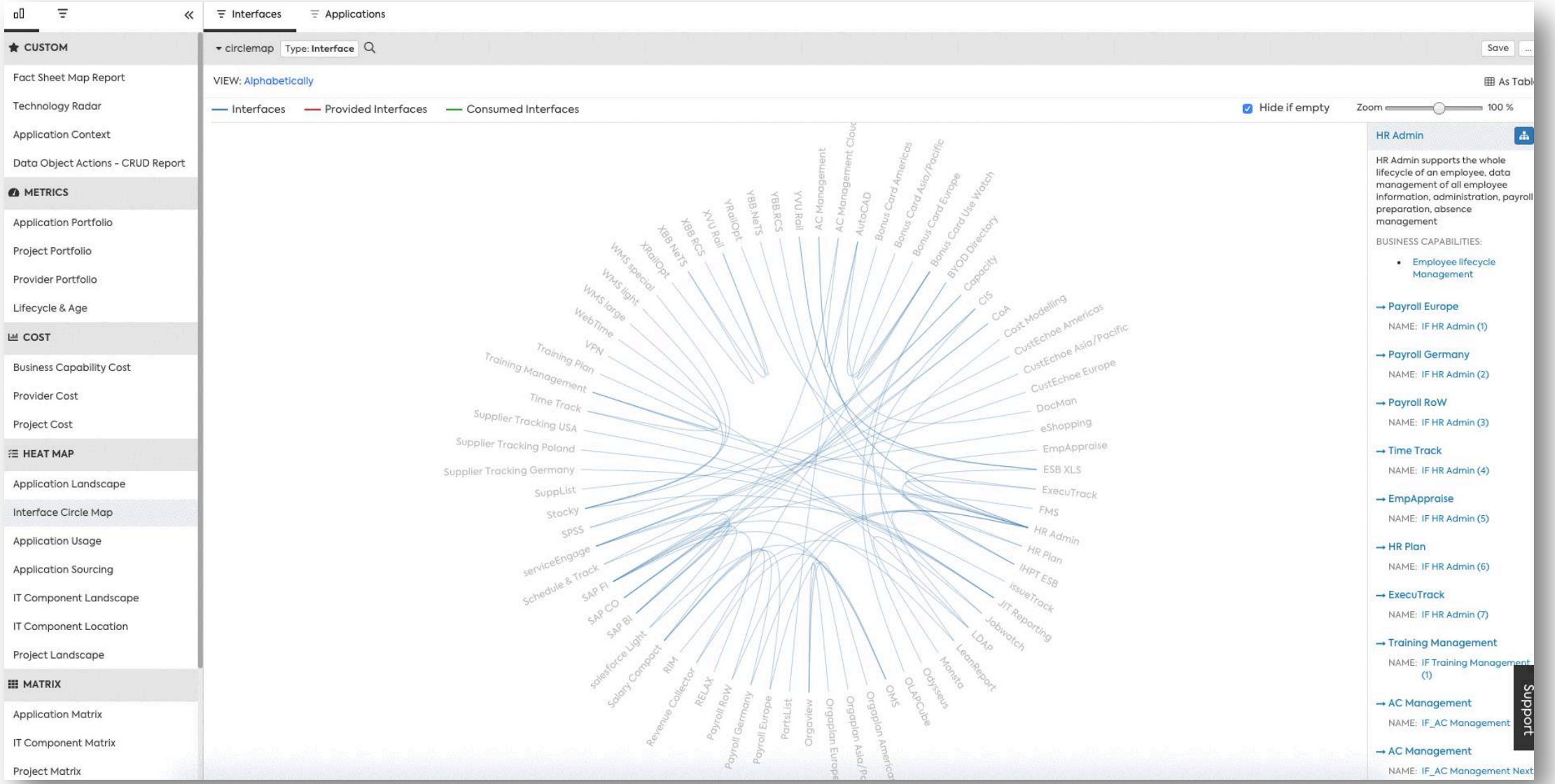
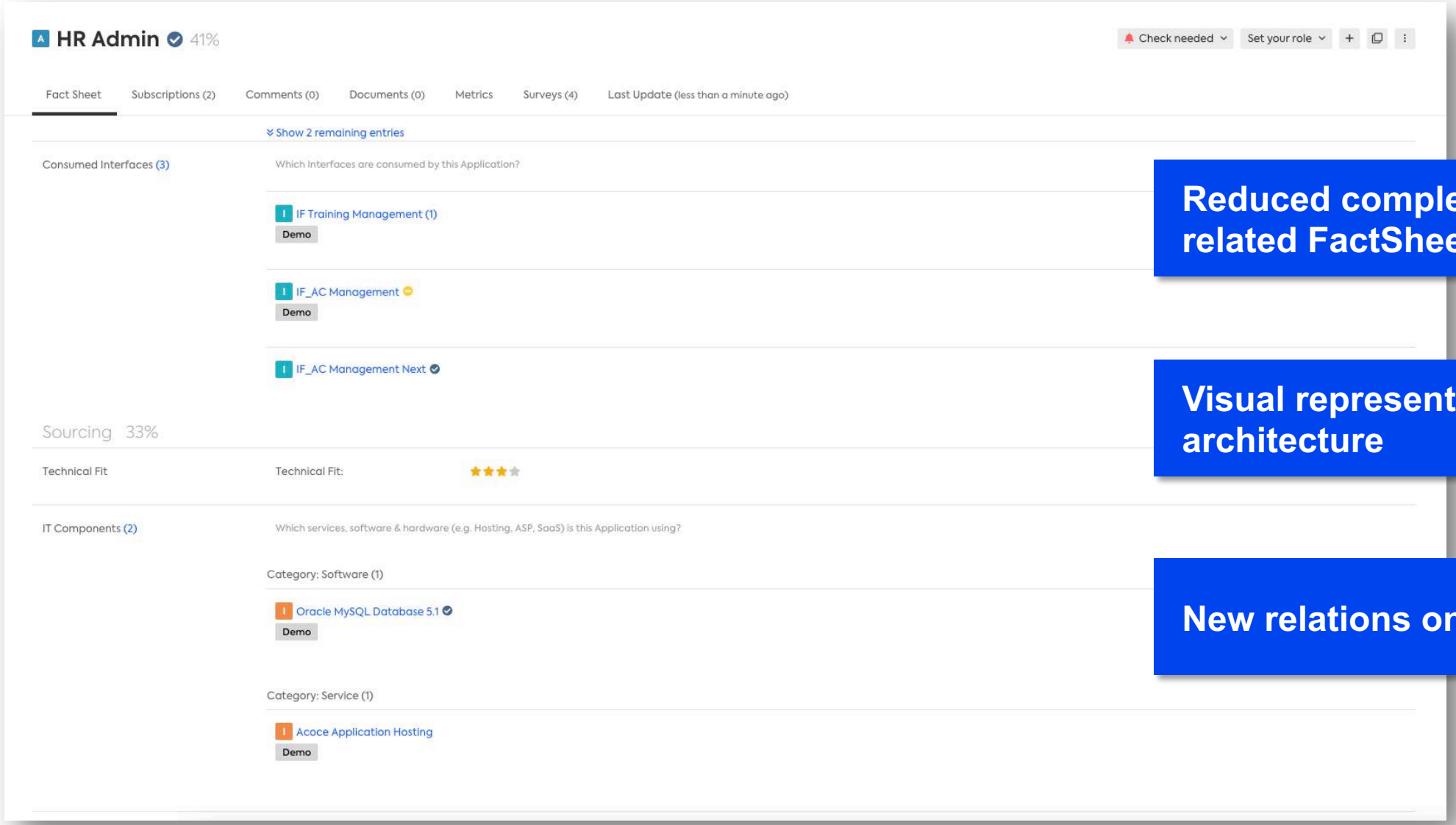


You can add or remove new relations ad hoc to reflect the current state of your architecture

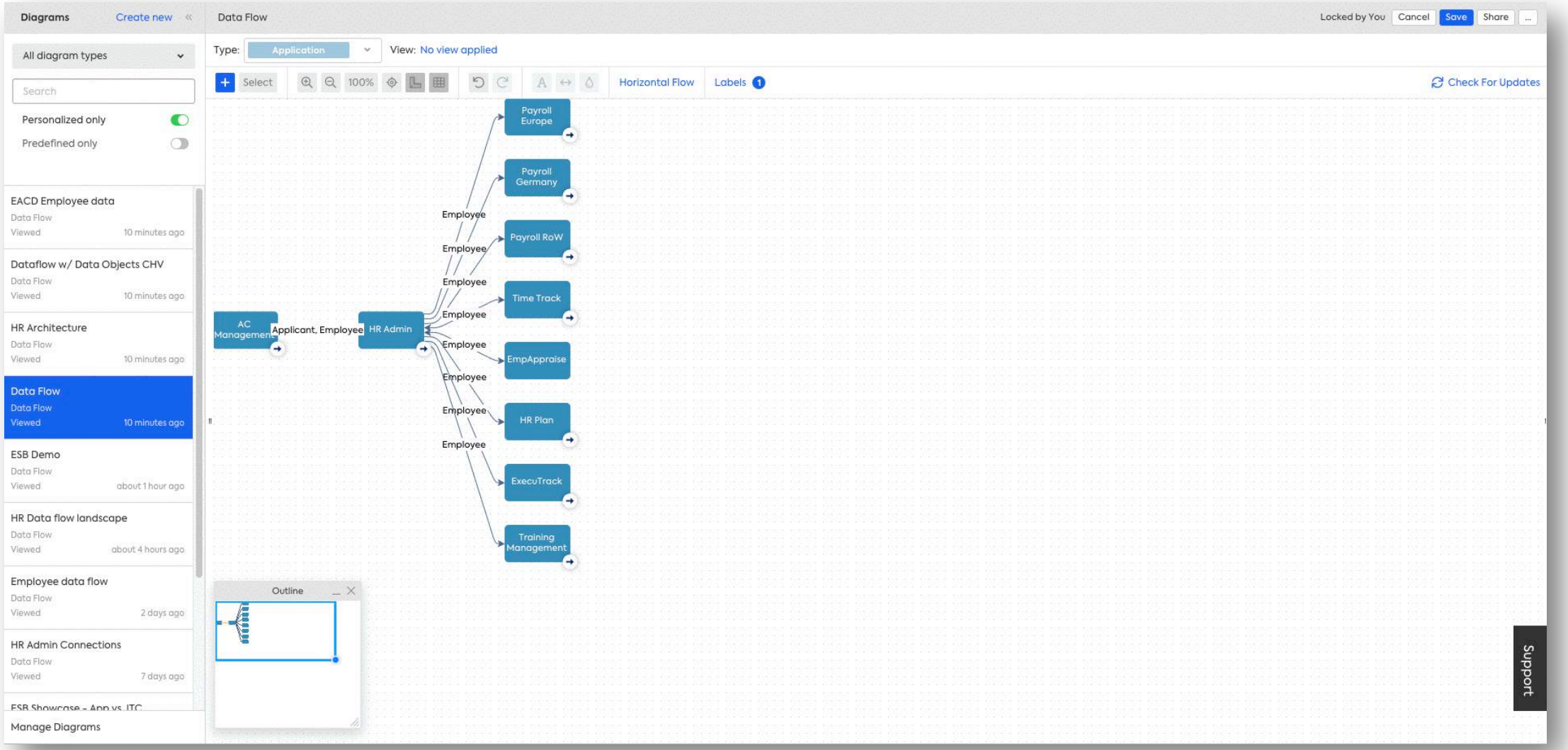


Reduced complexity via filters on related FactSheets

Visual representation of outdated architecture

New relations on the fly

Put your attention to the areas where business and technology overlap



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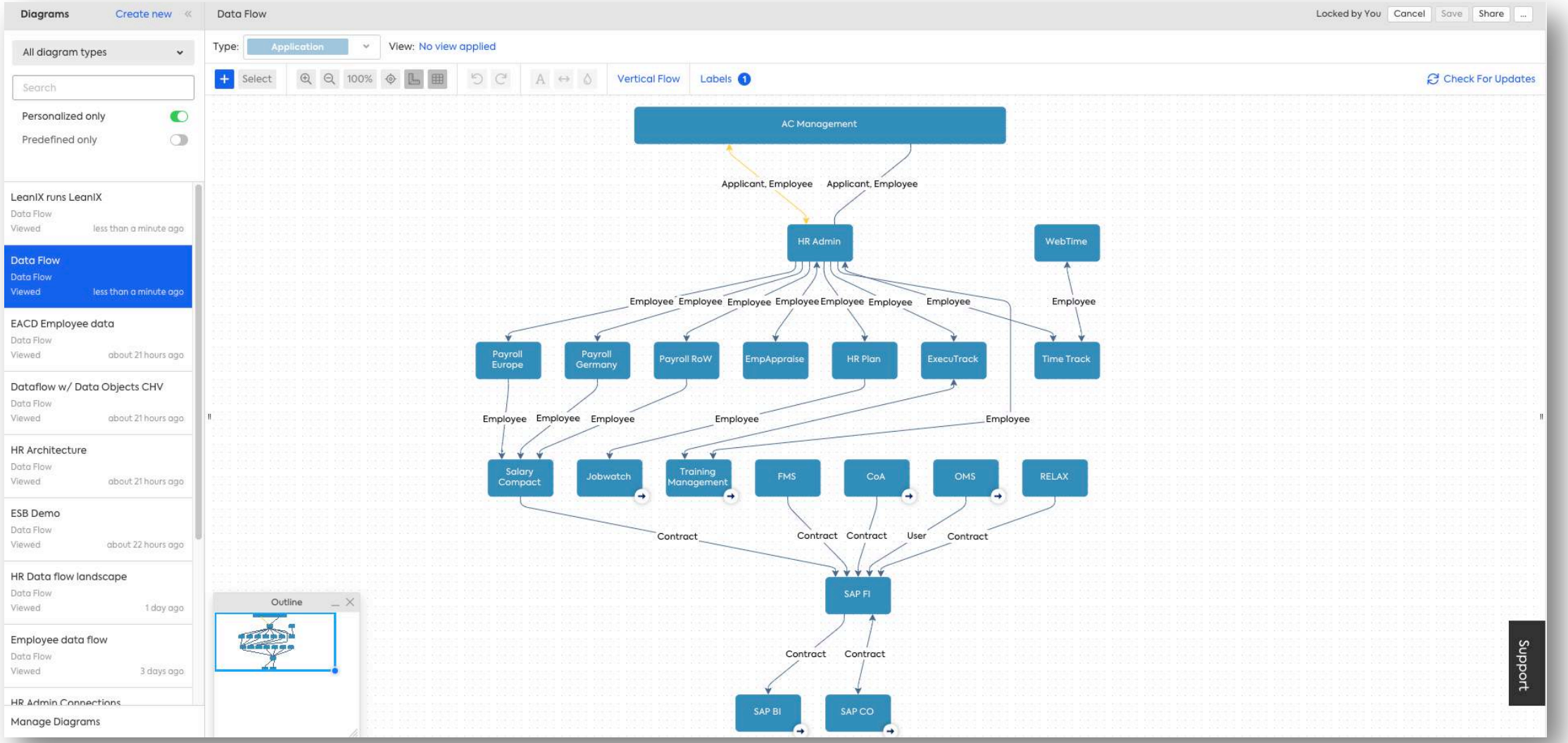

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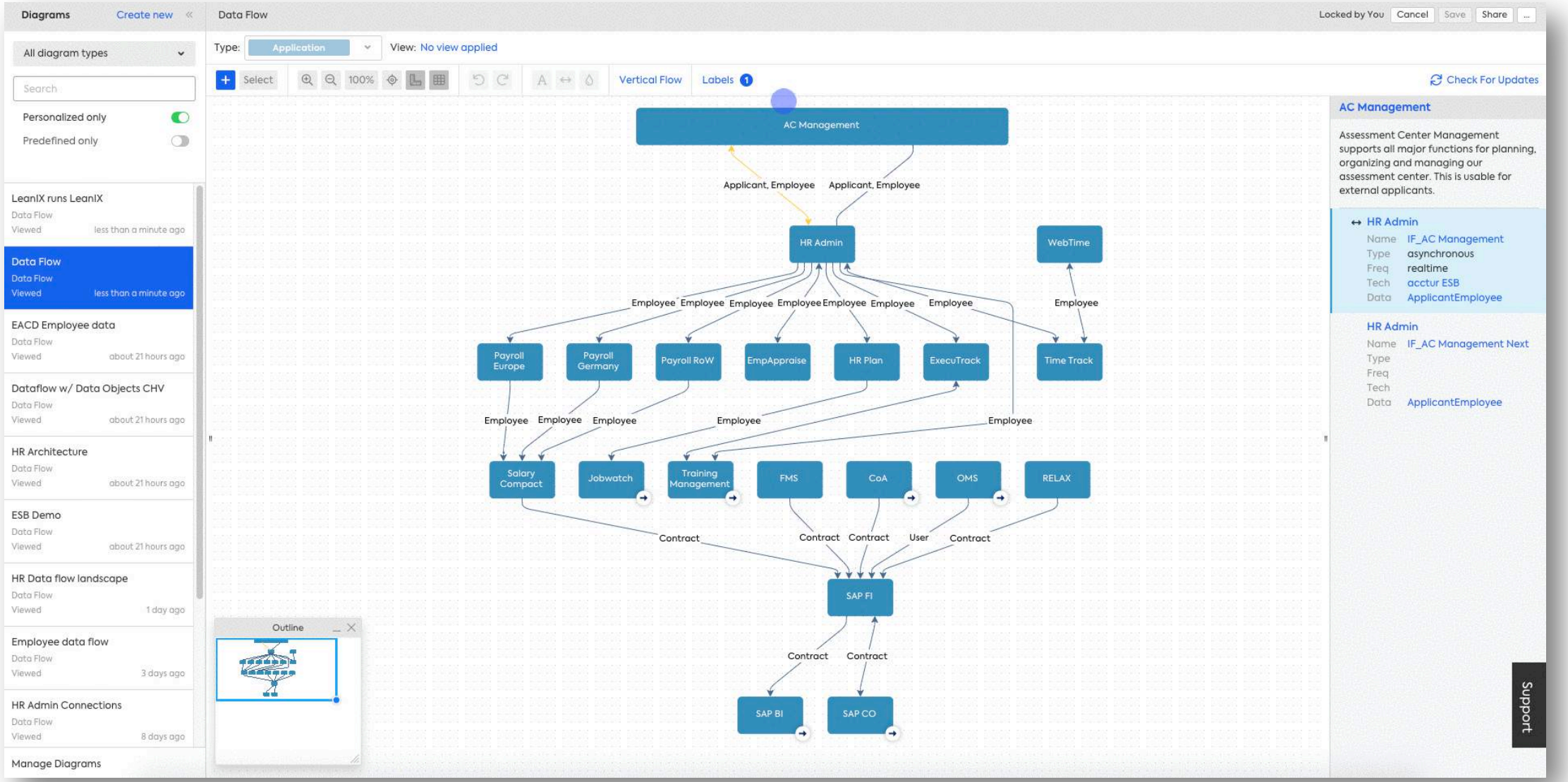

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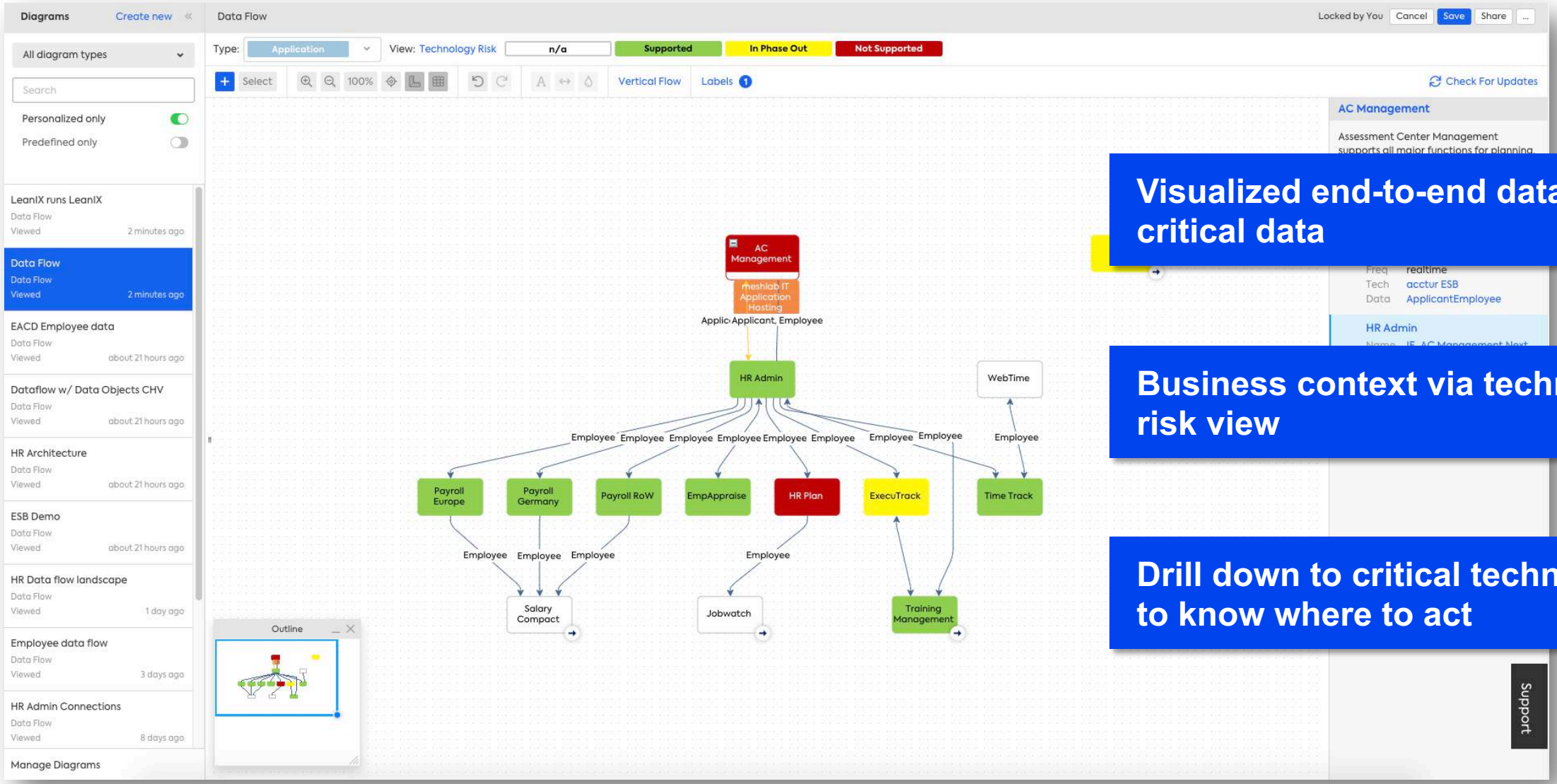

Visualized end-to-end data flow of critical data

Business context via technology risk view

Drill down to critical technology to know where to act

Summary

A focus on integration architecture will change the role of IT and EA from supplier and fire fighter to a **strategic advisor to the business**

Actively managed integration architectures are **less likely** to cause **major business failures or compliance issues**

LeanIX fosters a **data-driven and (semi-) automated approach** towards **end-to-end visibility** of your integration architecture

Thank you!

Any questions?

LeanIX Cloud Native Suite relies on the same platform as the Enterprise Architecture Suite