



# Improving EAM Data Quality with LeanIX Surveys

Use Cases & Experiences





# Agenda



#### 1. General

- Company information
- Architecture drivers
- Why LeanIX?

#### 2. Our story

- How we started
- Survey use cases
- System integration use cases

#### 3. Q&A

# EVN – Based in Lower Austria. Successful in Europe.





#### Lower Austria at a glance

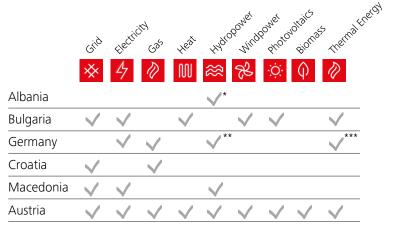
Area:	19,186 km <sup>2</sup>
Inhabitants (2017)	1,665,753
Participation rate:	79.1% (A: 76.6%)
GDP per capita (2016):	EUR 33,200

Sources: Statistics Austria; Eurostat, Land Niederösterreich, WorldBank, Bank Austria, AMS

# EVN – Energy business in six countries







- \* EVN share: 50%
- \*\* EVN share: 13%
- \*\*\* EVN share: 49%

### EVN – Environmental services in 18 countries







- \* thermal waste utilisation, drinking water supplies
- \*\* thermal waste utilisation

# EVN – Some key figures





#### → Revenue

- 2017/2018 ~ 2.200 Mio. EUR

### → Employees

- − Worldwide ~ 6.800
- − Austria ~ 2.400
- − IT in Austria ~ 130

# EVN – Zwentendorf





### Main architecture drivers



### Application Strategy

- →Transparancy across system landscape
- →Central list of product owners IT and business responsibilities
- →Which systems are in use and planned
- →Overview of Business Capabilities User Groups

#### **GDPR**

- →Overview of Applications and Data Objects
- →Overview of Applications with (sensitive) personal data

### Risk Management

- →Identify business/technical critical systems
- →Identify technology dependencies
- →NIS (Netz- und Informationssystemsicherheitsgesetz)

#### Security

- →Overview of identity and access management
- →Overview of role based acccess control

### Need for EAM tool with collaboration capabilities



- → High number of applications and complexity
  - Multiple companies/subcompanies
  - More than 700 applications
  - More than 1.400 servers
- → Architecture team consists of three members (≠ 3 FTE)
- → Information maintenance needs to be shared
  - Every IT employee has read/write access
  - Business departments will have at least view access
  - Surveys help to request specific information



# Why LeanIX?

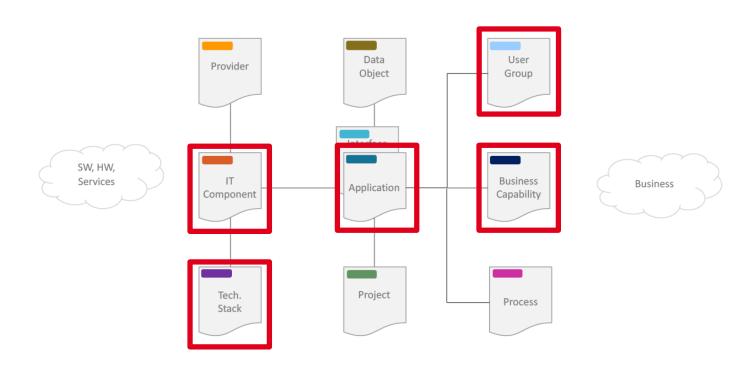


- → Intuitive user interface
  - Essential as many people work with the solution (infrequently)
  - Low onboarding and training effort
- → Collaboration features
  - Surveys
  - Comments
  - Notifications
- → Out of the box reporting functionality
- → Efficient import-/export functionality



# How we started – Main fact sheet types

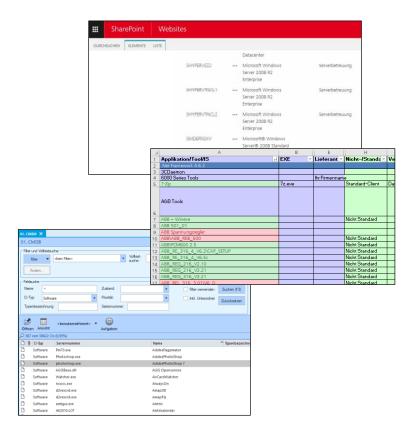




# How we started – List of basic application infos

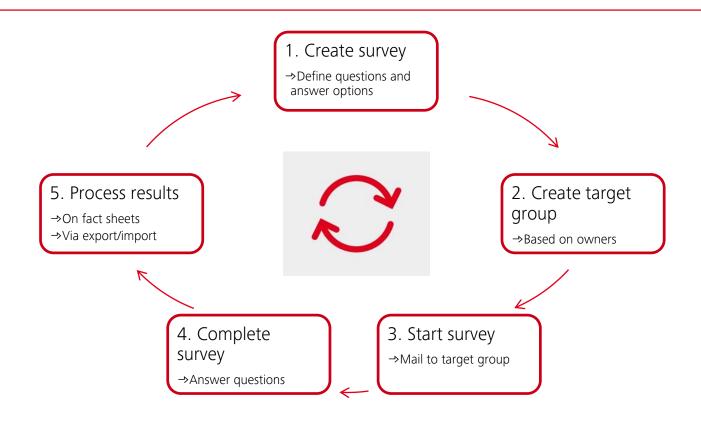


- → Goals & key information
  - Central list of current applications
  - Clarified responsibilities
- → Approach
  - Created initial list based on different sources
    - ITSM Tool, Excel Lists,Helpdesk Lists / SharePoint, ...
  - Import in LeanIX



# Survey process

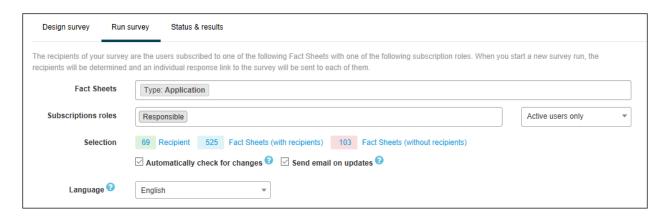




# Survey – Basic application information



- → Is the application still relevant and in use?
- → Who is responsible
  - IT responsibility
  - Business responsibility



# Survey – Basic Application Information



You received this survey because you are listed as application responsible. Is  Yes  No In case you know the correct application responsible (or the team who is res				
	Live preview			
	You received this survey because you are listed as application responsible. Is this Information correct?  (e) Yes (c) No  Is the application still relevant? (c) Yes (c) Application is installed and in use, or planned to be introduced. Also read only systems (e.g., archive systems) or version management systems have to be considered. (c) No (d) Application is not in use anymore or has been replaced by a different solution and can therefore be removed from LeanIX.			
	ОК			

# Survey – Extended application information



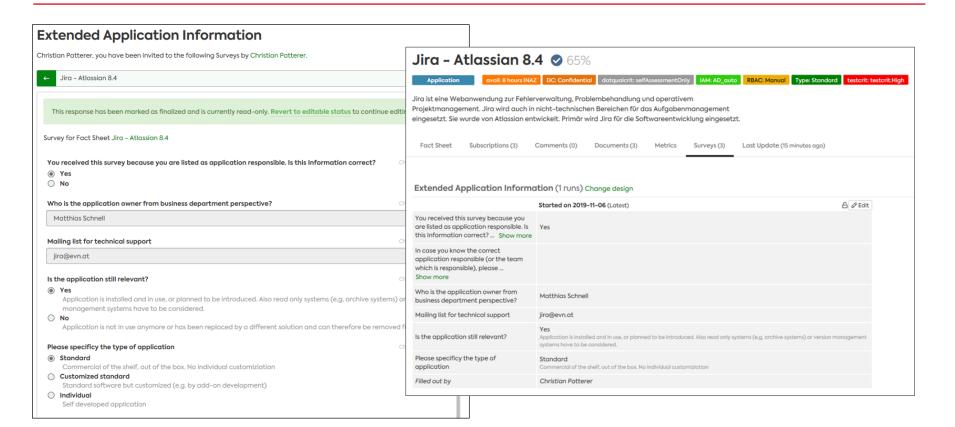
#### → Inquired information

- Responsibilities incl. business departments
- Relevant (yes / no)
- Standard / Customized / Individual
- Correct application name and description
- Usage of personal data
- Usage of Java
- Identity and access management
- Need for action
- → Survey was sent to approximately 70 people



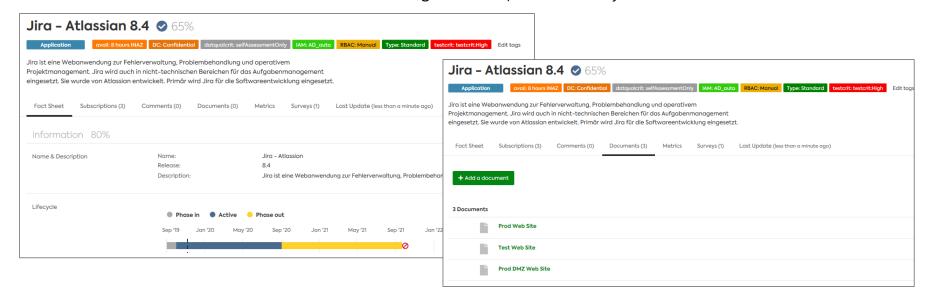
# Survey – Extended application information







- → Detailed information in a central place
  - Description of an application
  - Links for further reading or to implemented systems

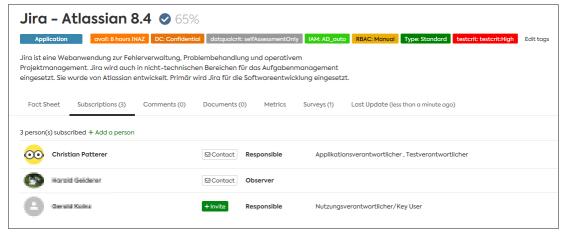




- → Central overview of responsibilities
  - Who is responsible for an application
  - Who is responsible for which applications

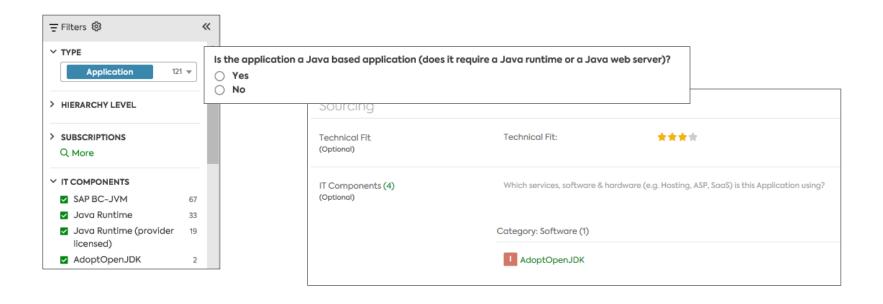
→ Overview of standard, customized and individual

applications



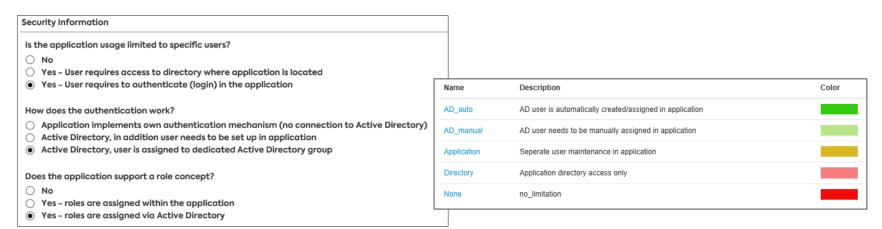


#### → Address Java commercialisation





- Overview of identity and access management as basis for addressing security challenges
- → Filter via tags
  - IAM Identity and access Management
  - RBAC Role based access control





### → Find applications with personal data

Personal Data				
Is personal data processed in the application (according to GDPR)?  • Yes				
	VIEW: Data Objects: Data Classification  N/a  Public / Unclassifie	Sensitive (L-1)	Restricted (L-2) Confidential (L-3)	
Is sensitive data processed in the application (genetic data and biometric data such as fingerprints, iris	Attention: 567 Fact Sheet(s) not included in this	s report due to missi	ng data: Show list	
○ Yes ○ No	Business Support	_	Customer and Partner Financials Management	
	Corporate Compliance Management		Claims, Returns, and Refund Management	
	IT Development		Contract Accounting	
	IT Management	melő vá	Credit and Collection Management	

### Immediate benefits

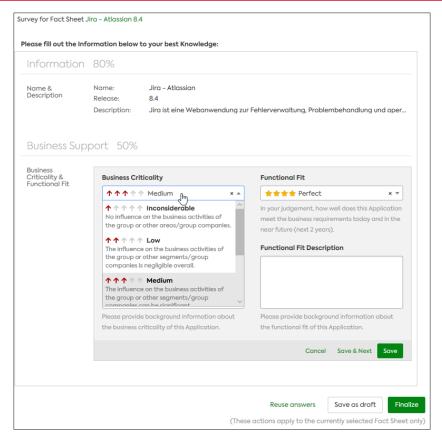




- → Deleted 100+ applications from repository
- → Common basis for further activities
  - Input for security team for security processes
  - Input for Java commercialization topics
  - Input for GDPR activities
- → Reduction of Excel lists

# Some smaller surveys – Business information





#### → What

 Input from business side regarding criticality and functional fit

#### → Why

- Overview of critical systems
- Relevant for maintenance windows, disaster recovery etc.
- Used in emergency manual

# Some smaller surveys – Java Alternatives



Please specify the application type			
○ Client			
○ Client - Java Web Start			
○ Server			
Is the Java Runtime distributed with the application?			
○ Yes			
No - Java needs to be installed separately			
Does the application require a specific Java version			
○ Yes ○ No			
Required Java Version			
			Т
If Oracle Java Runtime is used, can it be replaced by an alternative?			
○ Yes - AdoptOpenJDK			
Yes - Amazon Corretto			
○ Yes - Other ○ No			
○ No			
			- ·
	Reuse answers	Save as draft	Finalize

#### → What

 Input from IT for potential Java alternatives

#### → Why

- Relevant to find non commercial Java options or clarify Java need
- Client as well as server side alternatives

# Learnings from using surveys



#### → Pro's

- High return rate > 85%
- Only few questions related to answering surveys
- Conditional questions improve user experience
- Embedding fact sheet segments reduce subsequent work
- Automatic e-mail distribution
- Automatic e-mail redistribution (e.g. if responsible changes)

#### → Con's

- Filling out fact sheet segments is not always intuitive for end users
- Processing answers from other question types (non fact sheet segments) require subsequent work
  - Direct update of tags would be helpful
- No reminder e-mail functionality
- Export/import requires rework
  - Name includes application version
  - Column titles are different

# Learnings from using surveys



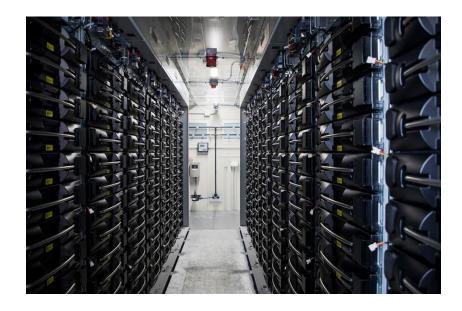


#### → Formulate meaningful questions

- Keep in mind what you will do with the results
- → Try to keep the survey short
  - In many cases people do this on top of their regular work
- → Inform people of upcoming survey
  - Especially if people are new to the topic
  - Mail might look like spam to them
  - Give them context

# Integration of Servers





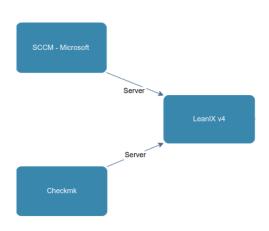
#### → Essential to answer questions

- Clarified responsibilities for infrastructure components
- Impact of server failures, OS and DB upgrades and patches etc.
- Timely identify technical risks
- → Why not maintaining manually
  - 1.400+ servers
  - Frequent changes (new servers, etc.)
  - Info already available in other systems

# Integration of Servers - Approach



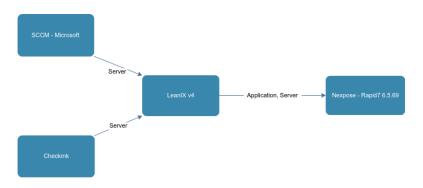
- → Source for information
  - Microsoft SCCM for Windows server
  - CheckMK for Linux server
  - Available information: server name, operating system, status
- → Integration via LeanIX API (GraphQL)
  - Using integration middleware
- → Adressing previous questions requires server/application relation
  - Manual via survey



### Integration of Servers – Additional use case

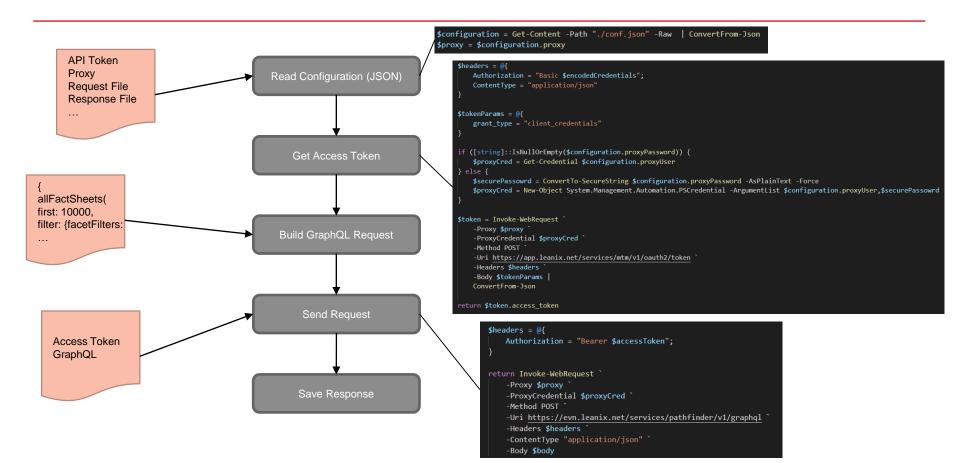


- → Integration with vulnerability management software
  - Software scans network devices to identify potential vulnerabilities
  - LeanIX application business criticality defines criticality of servers and sequence of next steps
- → Integration via LeanIX API (GraphQL)
  - Using PowerShell



## Integration using PowerShell





# Take Aways

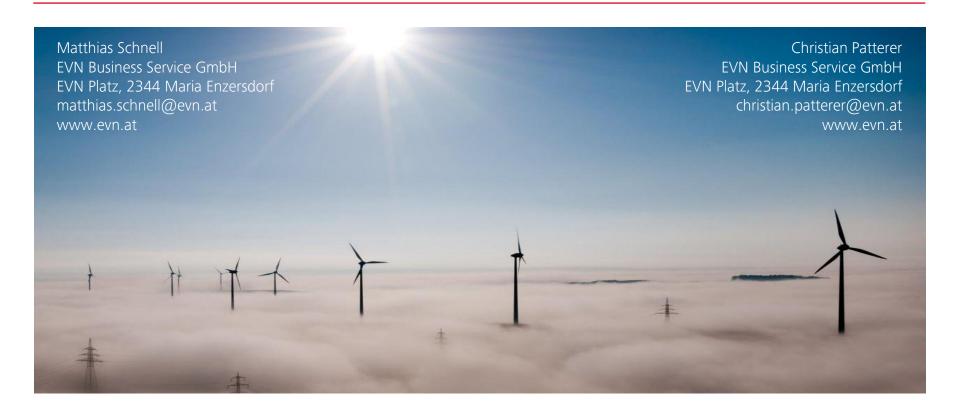


- → Collaboration is the best approach
  - Talk to each other
  - Convince people by demonstrating benefits for their roles
- → Document only data that adds value
  - Accept that data will never be 100% complete
- → Tool support is essential
  - Intuitive user experience for user acceptance
  - Collaboration features are key
  - Trusted central repository eliminates redundant information
- → Integrations improves data quality and completeness



### Vielen Dank für Ihre Aufmerksamkeit!





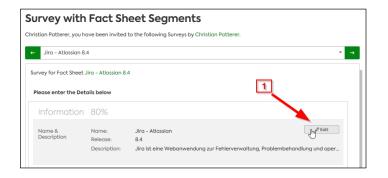


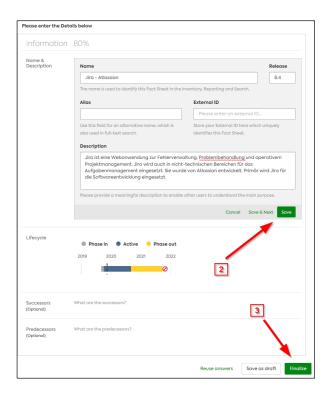
# Appendix

# Using surveys – Details



→ Usability of fact sheet segments





# Using surveys – Details



### → Export/import format

