

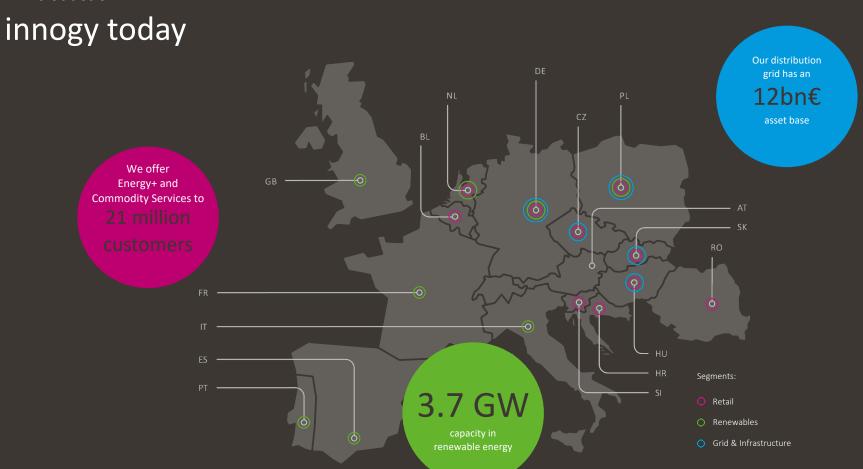
O () innogy

EA as the #ENABLER for Cost Transparency at innogy

innogy SE · Christian Schürmann · 26th November 2019



1. Introduction



1. Introduction innogy tomorrow



innogy as part of the new E.ON ...

... with ~53m customers

00

for Energy+ and Commodity Services

... and a ~34bn€ grid asset base



combined of E.ON and innogy reported in 2018





Renewables as part of RWE with an installed capacity of ~9.5 GW





THE ZOMBISERVER

Nobody knows...

- ... who is responsible for it
- ... who pays for it
- ... for wich application it is running
- ... what will happen if you shut it down
- ... who will provide security updates



Three major goals





A cross-departmental team of experts was formed to review the existing data models and tools to design and implement an integrated solution



information security

Give insight of the critical IT at innogy and help to strengthem them



operational efficency

Support the reduction of incidents with a well documented and transparent IT Landscape



end2end cost flow

Enable IT and Business for "insight hunting" to deliver the IT Services cost efficient

Steps of enablement



new requirements

- ✓ create user story
- ✓ priorisation
- ✓ sprint backlog

definition of a consistent data model

- √ object types
- ✓ attributes
- √ relation types

up to date and consistent information

- ✓ Information Security
- ✓ operational efficiency
- ✓ end2end cost flow

implementation

- processes
- tools
- ✓ interfaces

Development Principles



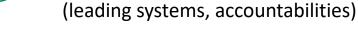


Focus on shared items

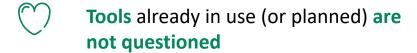
(object types & attributes)

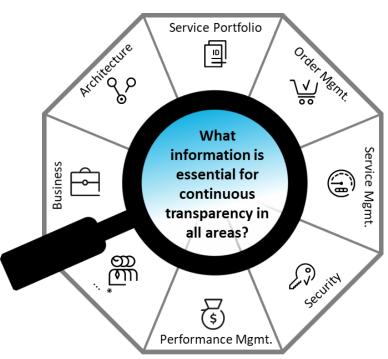


Consider Master Data Management



Existing data models have to been used as a baseline



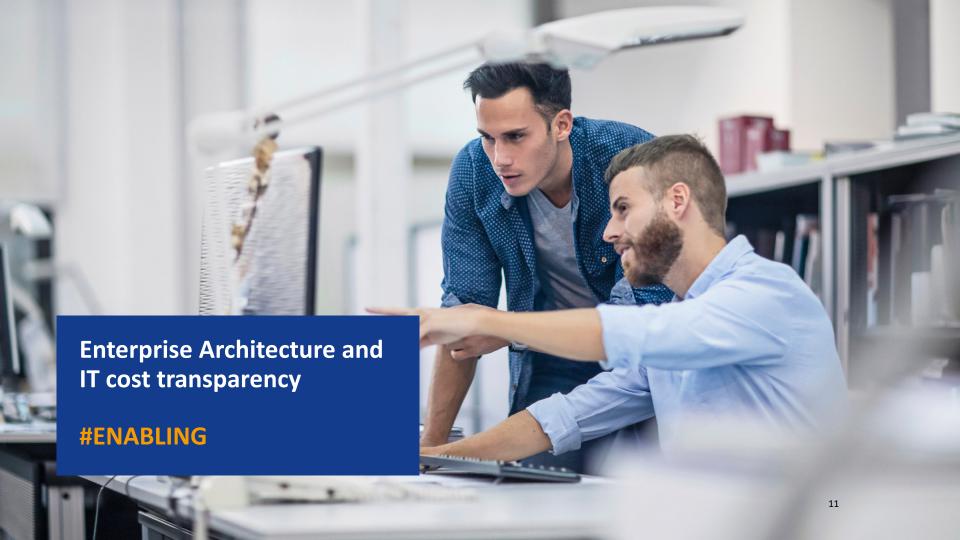


Tools in use or planned



The innogy tool landscape consists of "state of the art" IT management tools and tools developed in-house.





The Information Backbone in a nutshell!

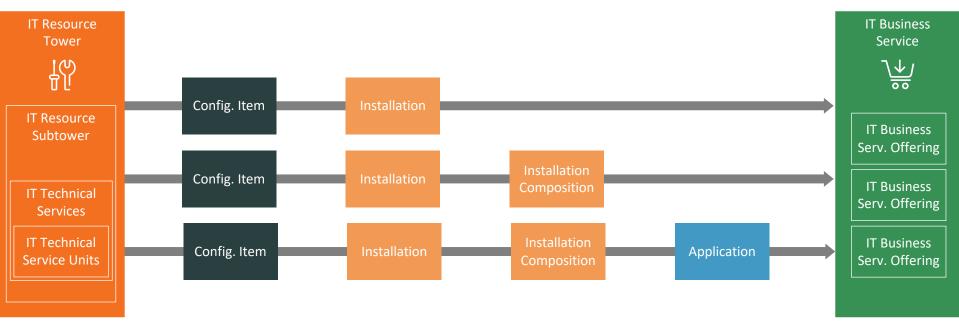


The **Information Backbone for cost transparency** is defined by a 4-layer taxonomy representing the IT value chain and different layer of responsibilities.



The Information Backbone: Datamodel

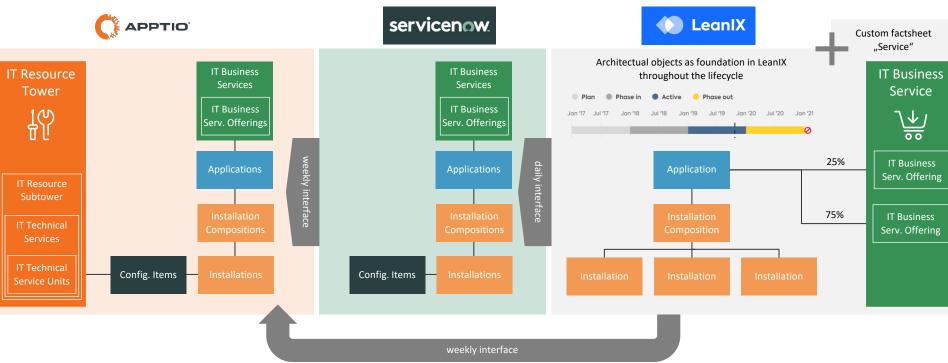




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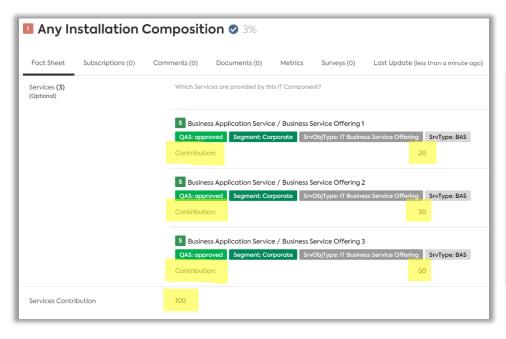
The Information Backbone: Tools

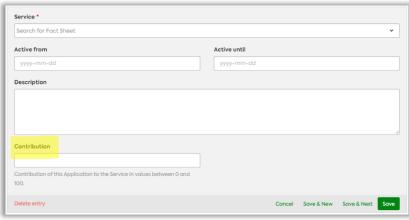




LeanIX Custom Factsheet "Service"









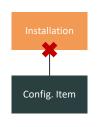
Inventory phase: Fallout Report



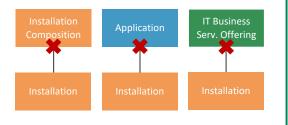


A **Fallout Report** was created in Apptio to find out how many objects did not have the necessary mapping.

The objects with the highest costs were processed first.

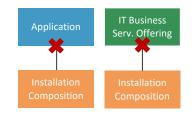


How many
Configuration items
are not linked to an:
- Installation



Which **Installations** is not link to an:

- Installation Composition or
 - **Application** or
- IT Business Service Offering



Which **Installation Composition** is not link to an:

- Application or
- IT Business Service Offering

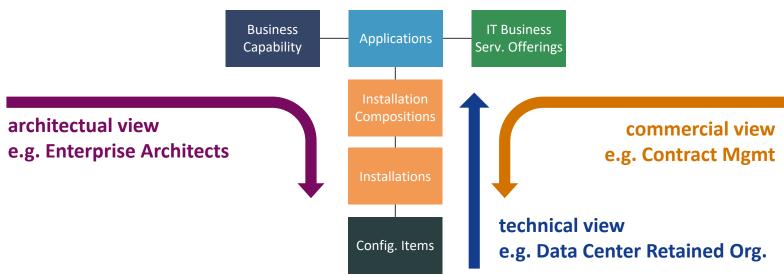


Which Application is not link to an:
- IT Business
Service Offering

Rollout Plan Transparency@IT



The inventory was a common task of different roles in the IT



Rollout Plan Transparency@IT



The Rollout started in three waves

- 1. Initial data inventory at Central IT and Corporate
- 2. Initial data inventory at Business Segments
- 3. Continous data maintenance by standard processes

1. Central IT & Corporate

2. Business Segments

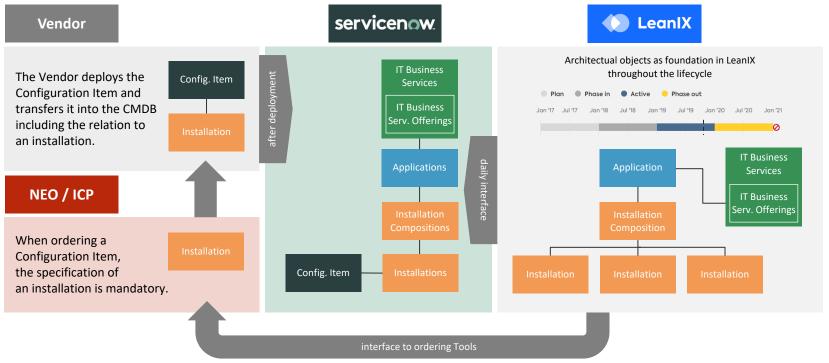


From initial data acquisition...

...to continous maintained data

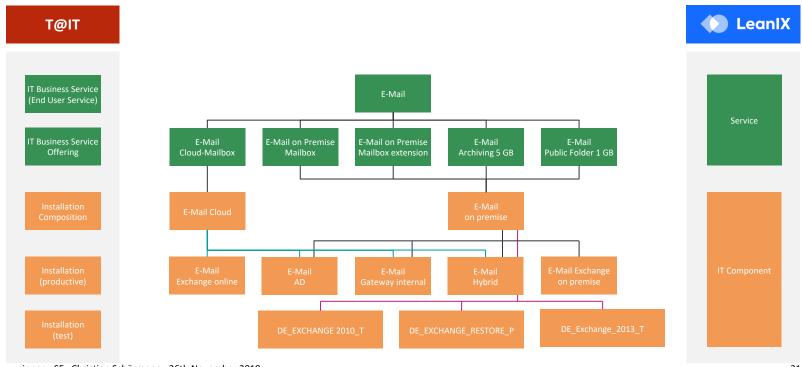
Up2date information: Ordering / automation





Architecture mapping example: E-Mail

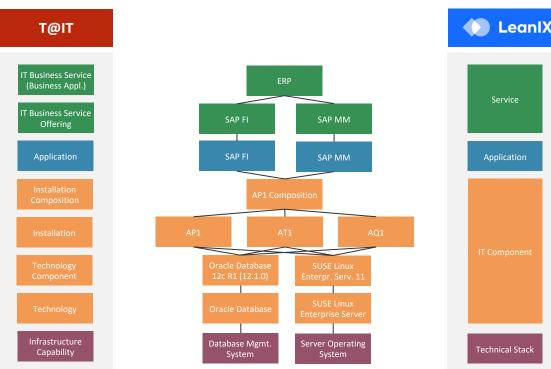




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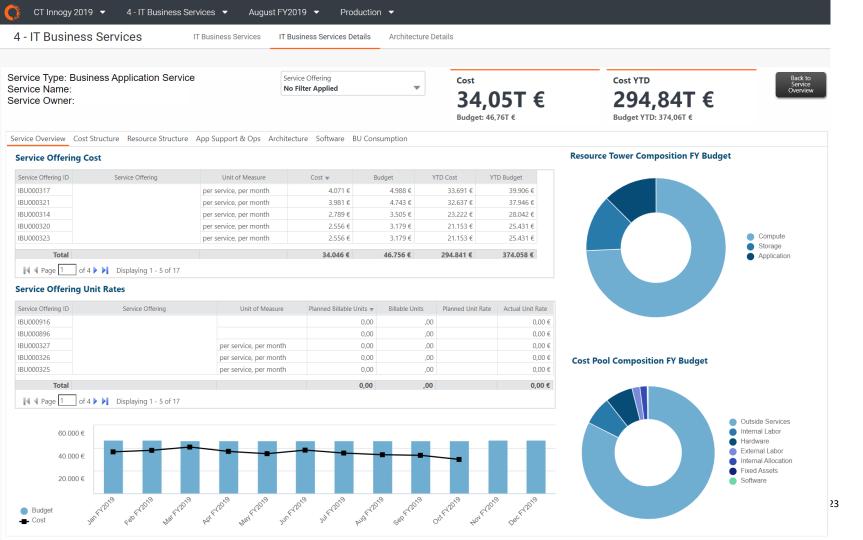
Architecture mapping example: SAP Application







Other use cases (beside cost transparency) are also shown e.g. lifecycle management / technology risk management





4 - IT Business Services

IT Business Services

IT Business Services Details

Architecture Details

Service Type: Business Application Service

Service Name: Service Owner: Service Offering
No Filter Applied

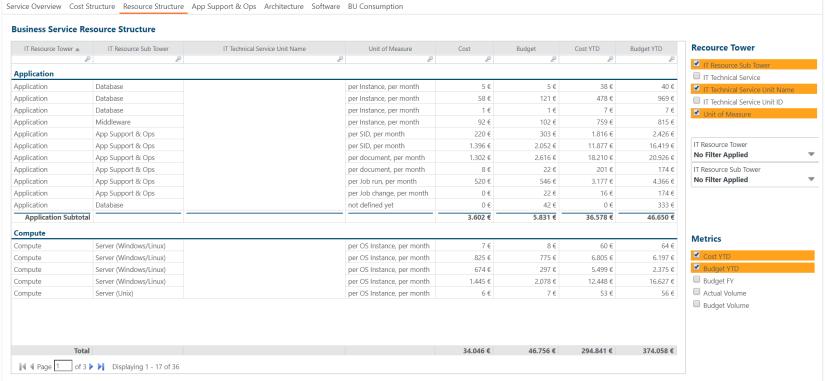
▼

Cost **34,05T €**Budget: 46,76T € Cost YTD

294,84T €

Budget YTD: 374,06T €









4 - IT Business Services

IT Business Services

IT Business Services Details

Architecture Details

Service Type: Business Application Service

Service Name: Service Owner: Service Offering

No Filter Applied

Cost **34,05T** € Budget: 46,76T € Cost YTD

294,84T €

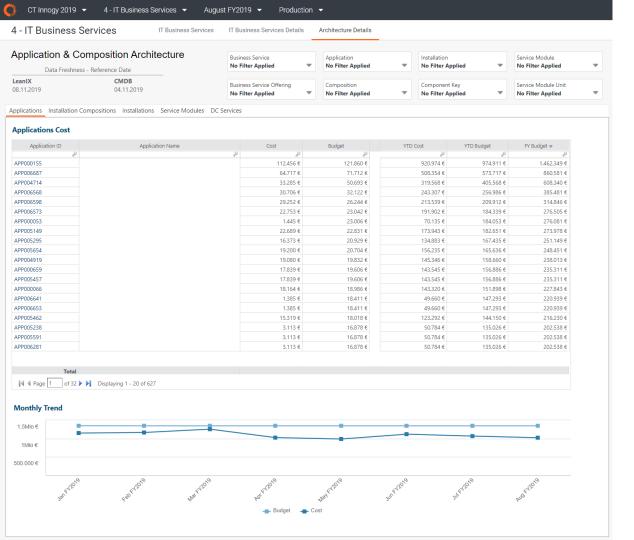
Budget YTD: 374,06T €



Back to Service Overview

Service Overview Cost Structure Resource Structure App Support & Ops Architecture Software BU Consumption **Recource Tower** Cost Budget Application Type App / Comp ID A Application Name Cost YTD Budget YTD P ☐ IT Resource Tower 902 € Application APP000044 1.062 € 7.363 € 8,499 € ☐ IT Resource Sub Tower Application APP000246 189 € 5.338 € 15.055 € 42,709 € ☐ IT Technical Service Application APP002209 902 € 1.062 € 7.363 € 8.499 € ☐ IT Technical Service Unit Name Application APP005142 379 € 421 € 3.106 € 3.366 € Application APP005456 1.804 € 2.125 € 14.727 € 16.997 € IT Resource Tower Application APP006540 497 € 0 € 3.710 € 0€ No Filter Applied Ψ Application APP006722 669€ 736 € 5.295 € 5.888 € IT Resource Sub Tower Application APP006746 669€ 736 € 5,295 € 5.888 € No Filter Applied Application APP006753 669€ 736 € 5.295 € 5.888 € Application APP006759 669€ 736 € 5.295 € 5.888 € Metrics Installation Composition ICO000018 0€ 0 € 1 € 0 € ✓ Cost YTD Installation Composition ICO000019 756 € 828€ 6.189 € 6.628 € ■ Budget YTD ICO000047 1.408 € 1.219 € Installation Composition 9.991 € 9.749 € Budget FY Installation Composition ICO000049 24.534 € 31.757 € 206,156 € 254.061 € 374.058 € Total 34.046 € 46.756 € 294.841 €









- ✓ Good **backlog management** is important
- ✓ Team should be cross-functional (avoid the "ivory tower")
- ✓ Resources should also be available for the initiative (commitment!)
- ✓ Employees should identify with their role in the team
- ✓ **Line tasks** may **not** become part of the initiative
- ✓ A **common data model and terminology** are extremely important
- ✓ Delicious **Snacks** & good **Coffee** are mandatory

