



CUSTOMER SPOTLIGHT: WHY OPEN SOURCE AND POSTGRES ARE AT THE TOP OF TELIA'S IT AGENDA

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HOST

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SPEAKER

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AGENDA

- Introduction
- Why Open Source and Postgres are at the top of Telia's IT agenda
- Telia & EDB discuss the use of open source and Postgres in today's enterprises
- Q&A

INTRODUCTION



The heartbeat of Postgres

70+ of F500

30% of Postgres code contributed
Source of innovation

1500+ Global customers

Customer requirements influencing the future
direction of Postgres

>300 Dedicated Postgres engineers
Unparalleled expertise

3 of 7 Postgres Core Team Members
Central source of community influence and
expertise



Telia Company in brief

Who we are

We are technology pioneers digitalizing society for the past 160 years. Today our 20,000 talented colleagues serve 25 million customers across the Nordic and Baltic region with essential digital infrastructure and digital services that are fundamental enablers of the digital societies we live in. We are the telecommunications leader in the region, the leading Nordic media house, and the leader in ICT in both Finland and the Baltics.

What we do

We are the hub in the digital ecosystem, connecting individuals, families, businesses and communities to the communication, ICT and entertainment services that enable and empower their lives. We have a deep social conscience that drives us to use our technology to be agents of improvement in society. We are constantly innovating ourselves to do better for ourselves, our customers, our owners and the societies of the Nordics and the Baltics.

Why we do it

We believe a connected life is a better life. Everything we do is driven by our purpose to reinvent better connected living so that people can live fuller lives, businesses can work smarter, and society and the planet can flourish together.

We provide



Mobile voice and data



Fixed voice and data



TV and streaming



ICT Services



Media advertising

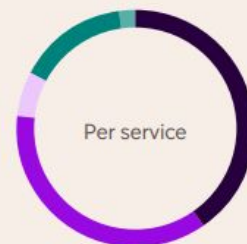


Devices



Value added services

Net sales 2021: 88.3 SEK billion



Sweden 39%
Finland 16%
Norway 16%
LED 15%
TV and Media 10%
Other 4%

Mobile 40%
Fixed 36%
Advertising 6%
Equipment 15%
Other 3%

Market	Position			Brands
	Mobile	Fixed	TV	
Sweden	#1	#1	#2	Telia, C MORE, halebop, fello
Finland	#2	#2	#3	Telia, C MORE, me
Norway	#2	#2	#2	Telia, phonero, C MORE, fiverCall, TFI
Denmark	#3	#5	#4	Telia, Callme, C MORE, 3
Lithuania	#2	#1	#1	Telia, ezys
Estonia	#1	#1	#2	Telia, eel, star
Latvia	#1	n/a	n/a	Telia, lmt, 2RD

Why Open Source and Postgres are at the top of Telia's IT agenda

WE NEED TO CHANGE!

- Speed up our deliveries
- Shorten Time-to-Value
- Lower the cost base
- Increase quality
- Attract and retain competence

SAFE framework
Agile Release Trains (ART)



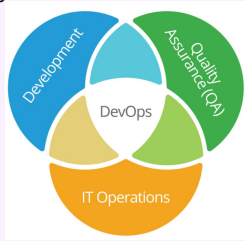
The world is becoming Cloud Native and so do we in order to stay competitive in all our markets



Areas to move forward

DevOps and Legacy Ops

- Automation
- Shift to more Dev leaning
- How to deal with DevOps vs Legacy Ops



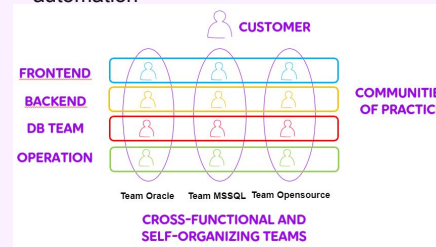
Data driven - Know your numbers

- Platform view/trends CPU/Mem/Storage
- LCM view
- Priority Controls
- Operation view/trends OWF/Plaza ques



Knowledge share using CoP

- Frontend = our interfaces towards stakeholders
- Backend = architecture, tech, dev, automation



Responsibilities DOA Matrix

- Create Domain of Accountability
- Update CMDB with responsibilities

	R. A. C. I.		
	Responsible	Accountable	Consulted Informed
	Expert Witness	Case Manager	Consultant
provides testimony	R	A	A
prepares documents	I	A	R
project manages	I	R	C

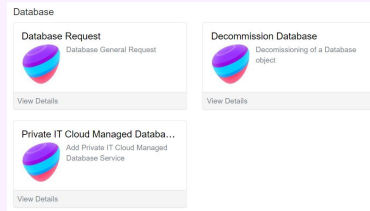
Continue Agile journey

- Clear roles for LD, PO, SM, Engineers
- Continue Agile way of working



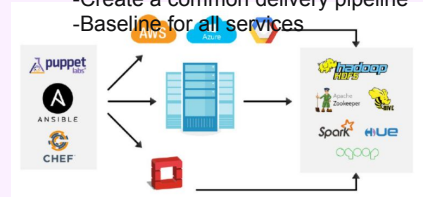
Plaza forms

- Update forms to be interactive



Microservices

- Change our services to be infra decoupled
- Create a common delivery pipeline
- Baseline for all services

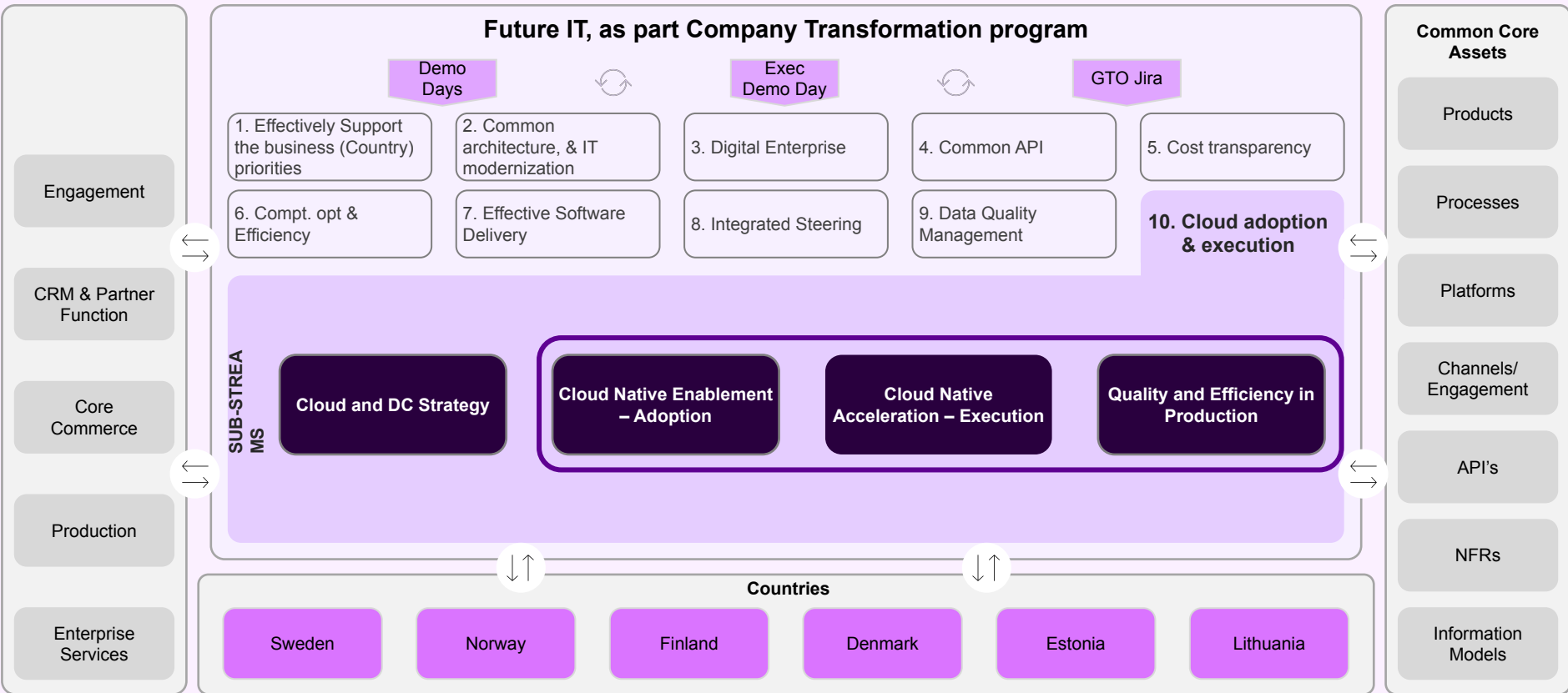


Public Cloud

- Education in Public Cloud
- DB strategy and architecture



Cloud adoption and execution



Open source

- As new business opportunities arise, open-source databases are usually quick to provide a way to exploit that opportunity. The availability of open-source databases in public cloud environments will see their usage grow even more in the future.
- In Database team we offer a Self service portal where stakeholders can upgrade versions, patch and do other automated activities them selves. In open source capability this includes services from:
- PostgreSQL, MYSQL, Mongo DB and Maria DB
- ***In Telia Company Opensource DB's is growing... installation growth past 1,5 year is about 20%***



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Opensource DB assessment

-how we plan, categorize and execute

Easy

- Application is using an Object-Relational Mapping (ORM) package, making it easy to switch to a new database protocol
- Typical programming languages: Java, C#
- Database usage is a single schema containing few tables (<40) with no XML/JSON stored
- Migration compatibility >95

Medium

- Application is using ORM, with dynamic SQL in a few places
- Typical programming languages: Java, C#
- Database usage is a few schemas (<4) with no database links required
- Database objects <200
- Migration compatibility >90

Complex

- Application uses hardcoded SQL and/or dynamic SQL
- A lot of application dependencies
- The database has a large number of objects >200
- Pro*C is in use on the application



DISCUSSION

EDB & Telia Discussion

- *What's the appeal of open source databases in general and Postgres in particular to enterprises?*
- *Do you think there is still a reluctance to use open source software within more traditional organisations?*
- *What is the role of open source in digital transformation? Do you think it is an essential component?*
- *How does Telia cope with the tech skills shortage when managing your postgres and other open source solutions?*

Q&A

THANK YOU