T-Systems Mainframe Services AMC-Tagung 22./23.05.2023

T · ·

LIFE IS FOR SHARING.

Andre Schreiber

Chief Technology Officer Mainframe
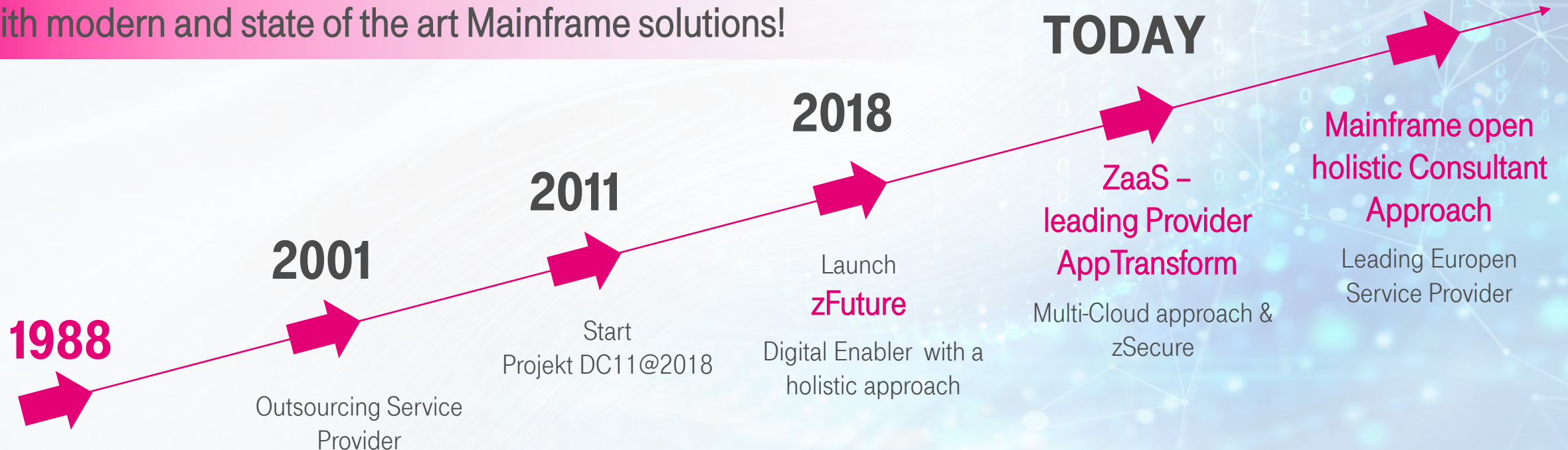A.Schreiber@t-systems.com
+49 160 615 3660

T-SYSTEMS MAINFRAME SERVICES
T-Systems MF – yesterday today & tomorrow

We support digital transformation since more than 30 years with modern and state of the art Mainframe solutions!

FUTURE

TODAY

2018

2011

2001

1988

Mainframe open holistic Consultant Approach

Leading Europen Service Provider

ZaaS – leading Provider AppTransform

Multi-Cloud approach & zSecure

Launch
zFuture

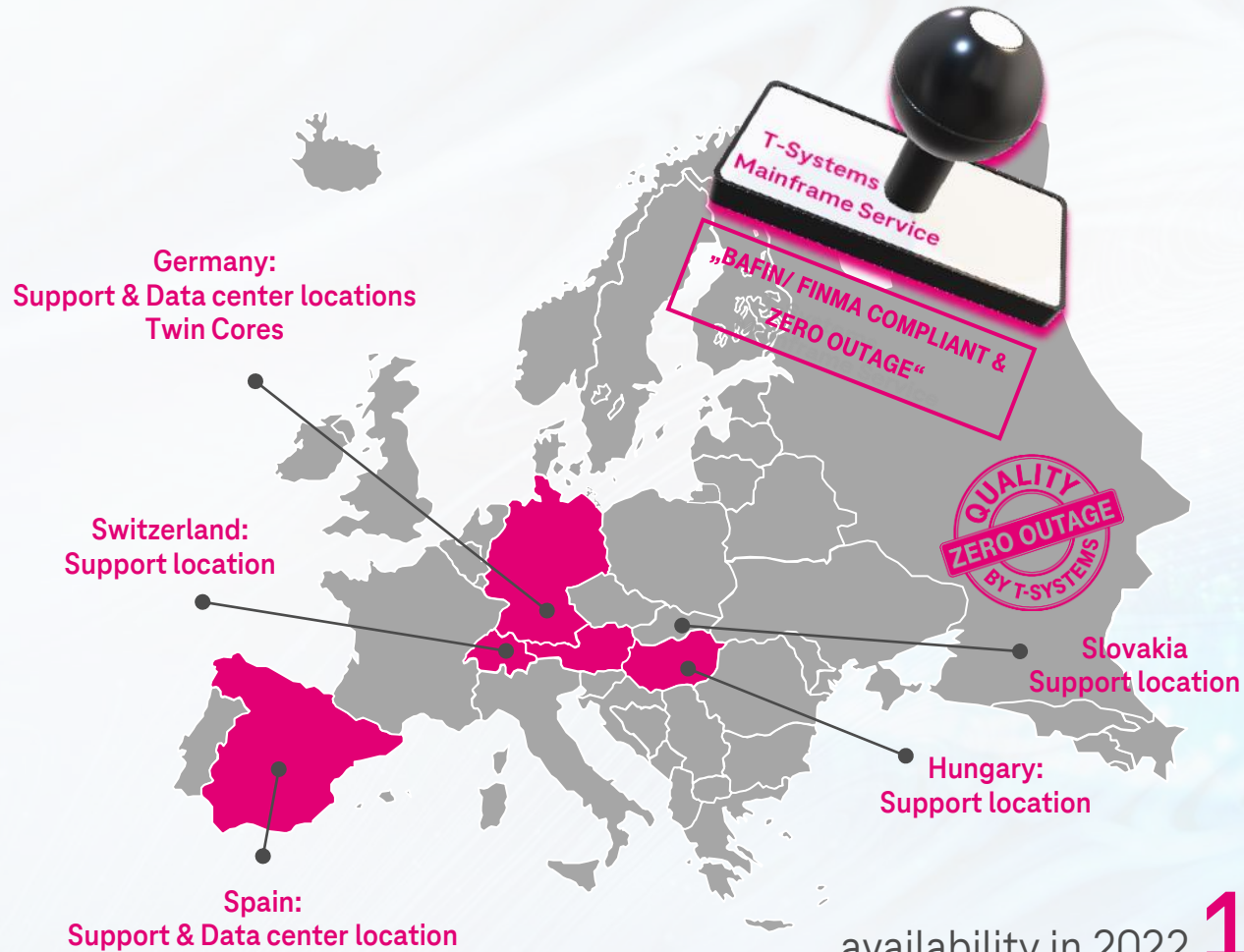Digital Enabler with a holistic approach

Start
Projekt DC11@2018

Outsourcing Service Provider

Debis & DTCSM
Mainframe T-Systems

T-Systems Mainframe Services – a driver of the T-Systems Cloud Portfolio strategy!

·T··Systems·

Let's power
higher performance

T-SYSTEMS MAINFRAME SERVICES – KEY FACTS

Plattform Operation

Germany:
Support & Data center locations
Twin Cores

Switzerland:
Support location

Spain:
Support & Data center location

T-Systems
Mainframe Service

„BAFIN/ FINMA COMPLIANT &
ZERO OUTAGE"

QUALITY
ZERO OUTAGE
BY T-SYSTEMS

Slovakia
Support location

Hungary:
Support location

availability in 2022 **100%**

126 Mio Revenue	**31 Mio** EBITDA
34 Customers	**>500** Experts
290.000* MIPS	**170** LPAR
26 VM	**280** zLinux
7.5 PB Storage	**26 PB** Backup

*Incl. special processors (IFL, zIIP, CF)/ Nov. 2022

T Systems

Let's power
higher performance

T-SYSTEMS MAINFRAME SERVICES

Complete overview - Personal & Skills

Worldwide over 900 Mainframers:

Germany: 375 employees (development, service & platform) COBOL, TSO, CICS, DB2, IDMS, IMS, eXplain, RTC, IDz, JCL ...

Spain: 120 employees (development, service & platform) COBOL, Assembler, TSO, CICS, DB2, RTC, IDz, Java, COBOL->Java

Hungary: 180 employees (development, service & platform) Partially German speaking, COBOL, PL1, CICS, DB2, eXplain, RTC, IDz

Slovakia: 80 employees (development & service) Batch scheduling; Batch, DB, BS operating and monitoring

Brazil: 90 employees (development) Partially German speaking, COBOL, DB2

India: 30 employees (development, service) COBOL, PL1, CICS, DB2, eXplain, RTC, IDz, Assembler, IDMS, IMS-DB

Additional capacities in further countries

>30 years of Mainframe experience
With business-critical environments

Lean and secure transition
With experienced project managers

Excellent career development opportunities
Qualification in the entire DTAG group

Investment in the new generation
TSI MF academy and zMaster programme

Collaboration with universities
Maintenance and structure of Mainframe know-how

Smooth transition in case of transfer of employees

Transfer of all concerned employees

Big experience through **>40,000** transfers into the transition, integration and further development of employees

98% Employee acceptance after transfer

■ Development, service and platform operation ■ Development and Service

---

T · ·Systems·
Let's power higher performance

ISG PROVIDER LENS – MAINFRAME AS A SERVICE 2022

Market feedback – ZaaS

T-Systems	Mainframe Modernization Services	MFaaS – Mainframe as a Service (shared platform operations)	Mainframe Operations (on site, dedicated environment)	Mainframe Application Modernization & Transformation Services
Europe	**Product Challenger**	**Leader**	**Product Challenger**	**Product Challenger**

+

Strengths

Full range of mainframe services: T-Systems offers the full range of mainframe modernization services, including mainframe operations and MFaaS. Its MFaaS offering focuses on securing business as a first step to cloud migration. T-Systems has a large team of experts in Germany and other European countries and a small presence in the U.S.

Consulting at the core: T-Systems provides a **holistic consulting approach** with quadrants based on business criticality and technical and functional complexity: Z-engineering allows up to zero outage maintenance for hardware, software and clients' applications; Independence Engineering moves to hybrid clouds with technologies such as zLinux and Openshift; Cloud Engineering services are standardized, encapsulated and lightweight to migrate workloads off the mainframe; and the zFuture application assessment includes decision boards with clients.

MFaaS cloud offering: T-Systems also has strong partnerships with the leading hyperscalers — AWS, Azure and Google Cloud.

Caution

T-Systems has significantly expanded its presence from Germany into the rest of the European market, but its main client base is still in Germany. Clients in other European countries should discuss the local availability of experts and the local service coverage.

T··Systems

Let's power higher performance
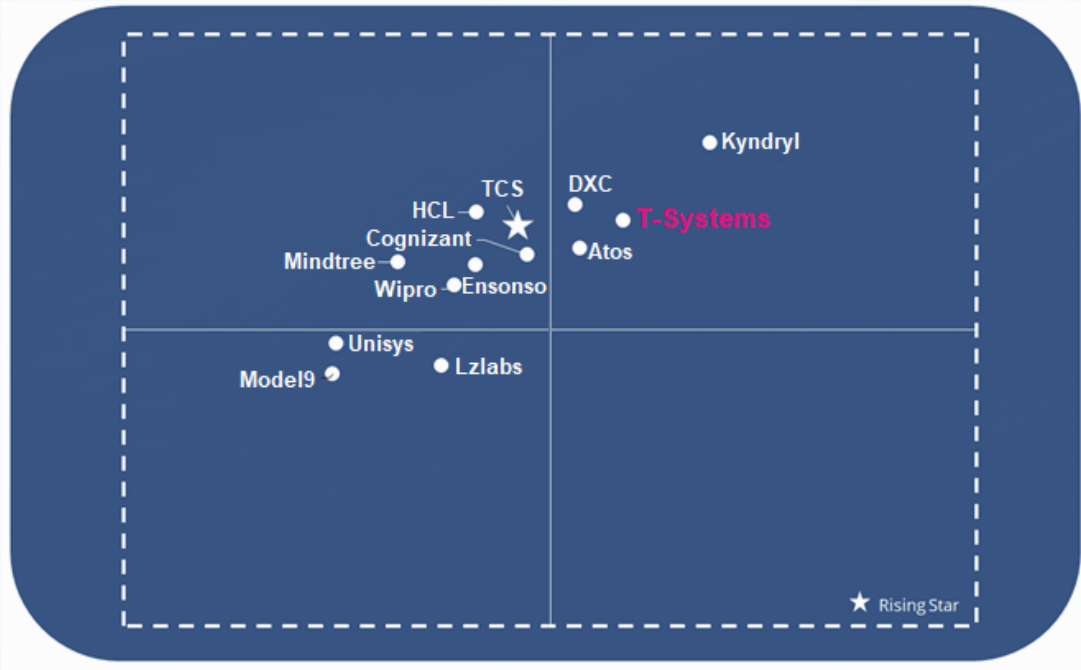
ZAAS – ONE FUTURE MODE OF MAINFRAME FROM T-SYSTEMS

We make mainframe cloud-like

In a growingly digitized world, customers hunger for innovation, simplicity, speed and reliability. We control our environments from online platforms, tablets and phones.

ZaaS from T-Systems allows to do exactly this, with existing mainframes or mainframe service clients consume today.

Ordering services or changes in scope in ServiceNow online
- Through our T-Systems ServiceNow portal
- Through your ServiceNow portal enabled via T-Systems connector App

Intuitive interface, quick & automated provisioning – just like online shopping
- Creating and configuring logical partitions or databases with a few clicks in our guided online interface
- Tracking the status of existing and new provisions easily
- Overview of service structure and its dependencies on one page

Security & zero downtime maintenance
- State of the art security systems and disaster recovery in our data centres
- Using applications without interruption, during maintenance

Maximum transparency & flexibility for services and costs
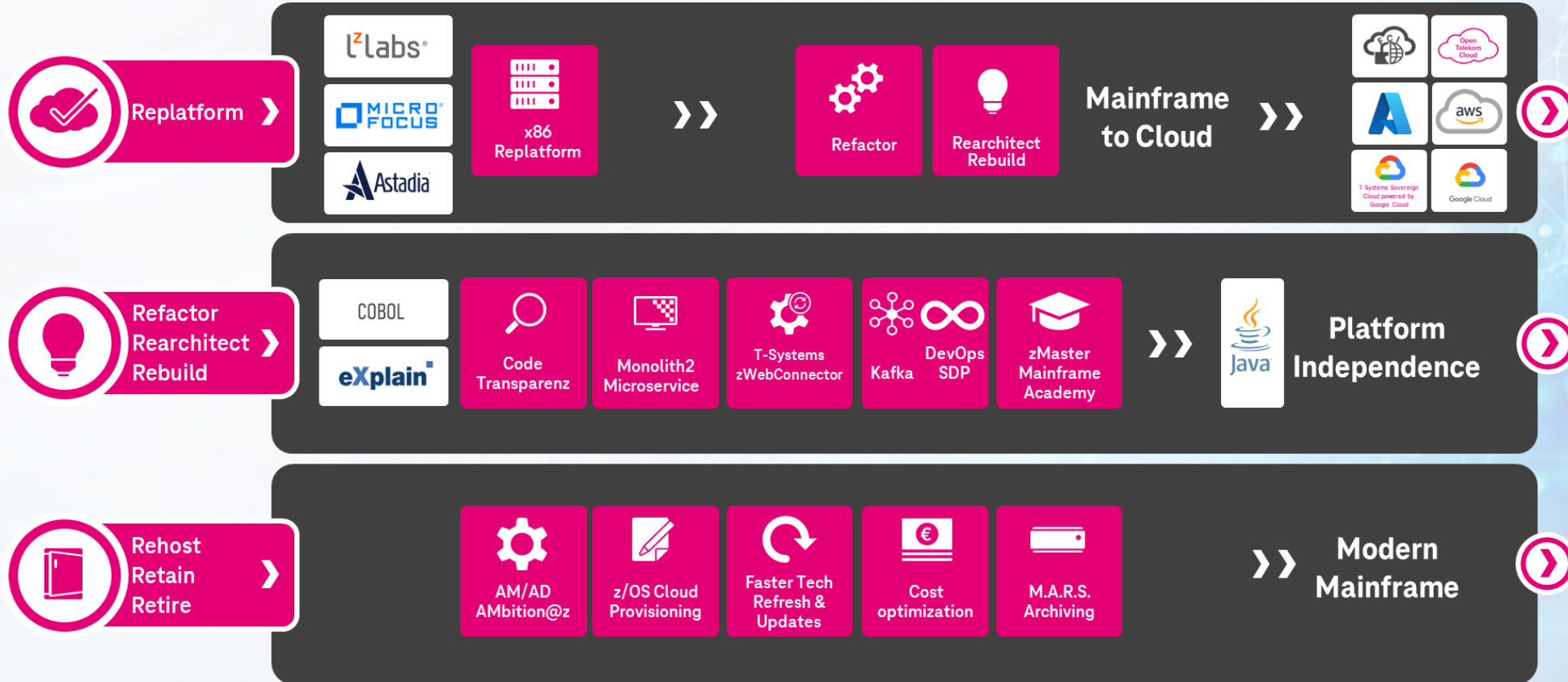- Full control over services, their scope and hence their cost through capacity on demand (CoD)

zSecure Service
- Holistic service approach to manage keys and certificates on the mainframe, distribute them to other platforms, using zEncryption power for other platforms

*ZaaS = MFaaS

FROM CLASSIC MAINFRAME TO T-SYSTEMS zFUTURE

Modern – innovative – flexible

Replatform

l²labs

MICRO FOCUS

Astadia

x86 Replatform

Refactor

Rearchitect Rebuild

Mainframe to Cloud

Open Telekom Cloud

Azure

aws

T-Systems Sovereign Cloud powered by Google Cloud

Google Cloud

Cloud Engineering – standardized, encapsulated and lightweight services for your need.

Refactor Rearchitect Rebuild

COBOL

eXplain

Code Transparenz

Monolith2 Microservice

T-Systems zWebConnector

Kafka

DevOps SDP

zMaster Mainframe Academy

Java

Platform Independence

Independence Engineering – choose the most economical way for your goals.

Rehost Retain Retire

AM/AD AMbition@z

z/OS Cloud Provisioning

Faster Tech Refresh & Updates

Cost optimization

M.A.R.S. Archiving

Modern Mainframe

zEngineering – advantage of the mainframe's full strength.

T··Systems·

Let's power higher performance

SUPPORTING OUR CLIENTS IN ALL MAINFRAME „WORLDS":
operations, modernization and transformation

Mainframe Ops and ZaaS

Mainframe modernizatrion and transformation

Basic/classic mainframe services

Takeover, Operations „as is", Migration to T-Systems premises, Reliable operations, cost reduction, consumption-based models, delivery-focused improvements, ...

ZaaS

Platform layer

Transformational services

Migration to new plat-forms, mainframe emula-tion, software-defined mainframe, app moderni-zation (xRs), automated code conversion, reverse engineering, DevOps, APIs, ...

zFuture

Application layer

T-Systems Consulting Approach

T·· Systems

Let's power higher performance

T-SYSTEMS MAINFRAME SERVICE – NEW CUSTOMER

Helvetia –T&T success story 2022

- Customer outsourced by competitor, short T&T timeline of 6 months
- T-Systems proposed five T&T scenarios to fulfill requirements
- Order processing delay (infrastructure) due to the current crisis
- Delay of the network connection managed by separate provider
- IP issue with former provider – 1:1 migration impossible
- Migration from z13 to z15 architecture managed during the T&T
- Collaboration with former provider very difficult & complex

- ✓ Committed take over May 31, real take over May 28
- ✓ Engagement, technical know-how and customer focus
- ✓ Close cooperation with the customer to challenge former provider
- ✓ Main success factor: team spirit of a highly motivated staff & above average performance

Strategic insurance DACH customer

!

FINMA compliance

einfach. klar. helvetia ▲
Ihre Schweizer Versicherung

powered by T-Systems Mainframe

- ✓ **Automation**
- ✓ **Maintenance**
- ✓ **z/OS basis**
- ✓ **Storage DASD and tape**
- ✓ **Hardware CPU**
- ✓ **Network & firewall**
- ✓ **Flexible contract, cost reduction (as you use)**
- ✓ **Long-term access to mainframe know-how**

https://youtu.be/5i9rINa_mCY

·T··Systems·

Let's power
higher performance

THANK YOU FOR YOUR ATTENTION!

Andre Schreiber
Chief Technology Officer Mainframe
A.Schreiber@t-systems.com
+49 160 615 3660

T · · ·   LIFE IS FOR SHARING.