

Oracle Cloud Infrastructure Customer Panel

ORACLE
Oracle Global Leaders Program



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Oracle Cloud Infrastructure Customer Panel



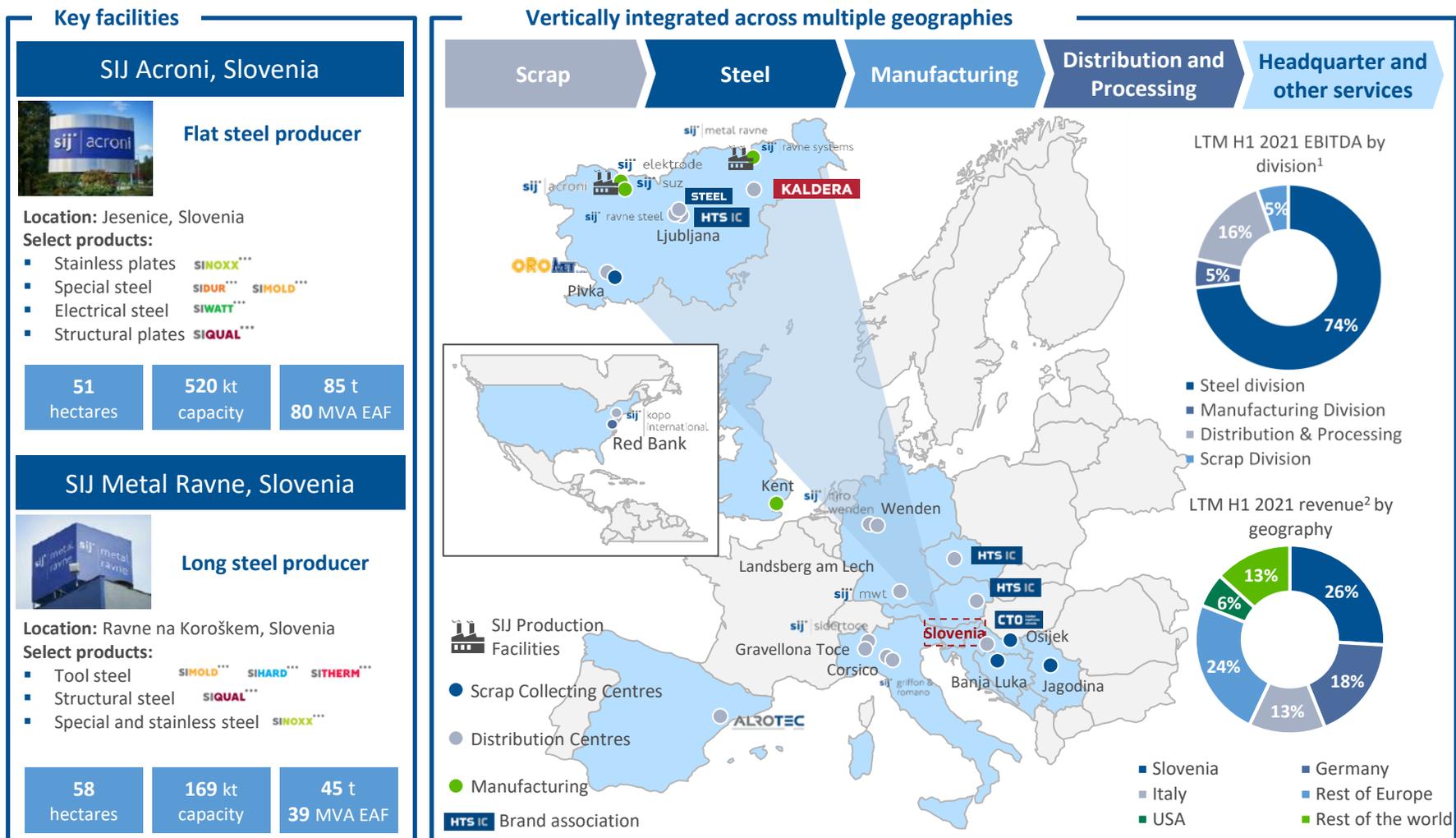
Vladimir Arshinov
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Sij Cloud transformation

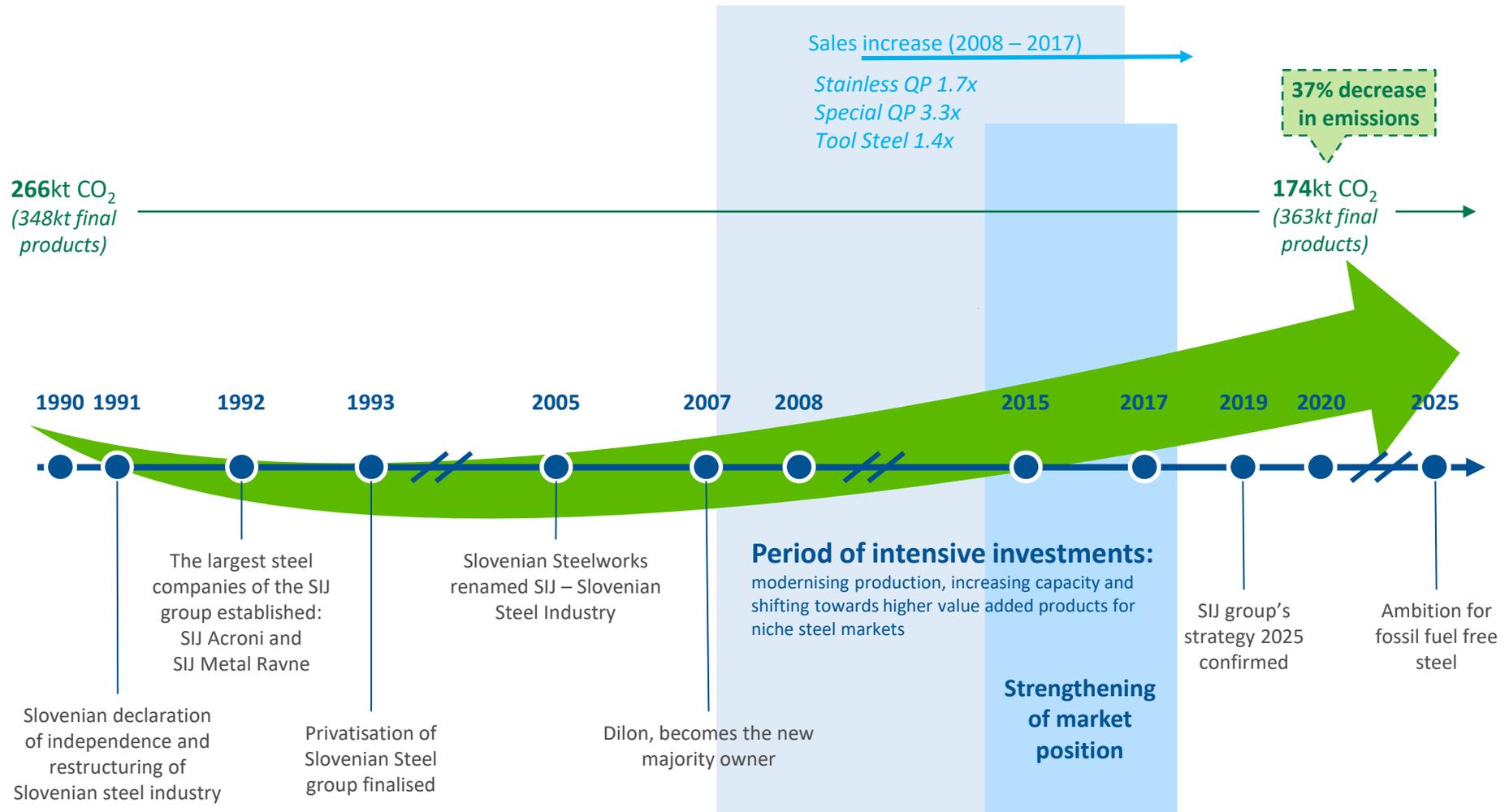


Vladimir Arshinov
Chief Information Officer

Operational overview



SIJ group history



SIJ today



SIJ group serves multiple attractive end markets...

Mechanical engineering



- Machine Knives and Rolls
- Mechanical parts of equipment
- Shafts
- Tools and Dies
- Wear parts

Domestic appliances



- Electric motors
- Shafts
- Plastic moulds
- Stamping dies

Automotive



- Electric motors
- Catalytic converters
- Rivets and joints
- Shafts
- Valves

Electronics manufacturing



- Electric motors
- Shafts
- Plastic moulds
- Stamping dies

Oil & gas



- Tubes
- Reactors
- Tanks
- Pressure vessels
- Heat exchangers

Chemicals



- Storage tanks
- Mixers
- Tubes and pipes

Power generation



- Gas and steam turbine blades
- Offshore wind turbine parts
- Heat exchangers

Metals & mining



- Crane booms
- Excavator buckets
- Hydraulic roof supports

Construction



- Crane booms
- Excavator buckets
- Bulldozer blades
- High-strength structures
- Tubes and pipes

Other



- Miscellaneous

Cloud migration Project

Requirements

- Migrate Production, Test and Development environments of EBS, VCP, BI systems to OCI
- Peripheral systems connected with EBS, VCP, BI will **not** be migrated to OCI

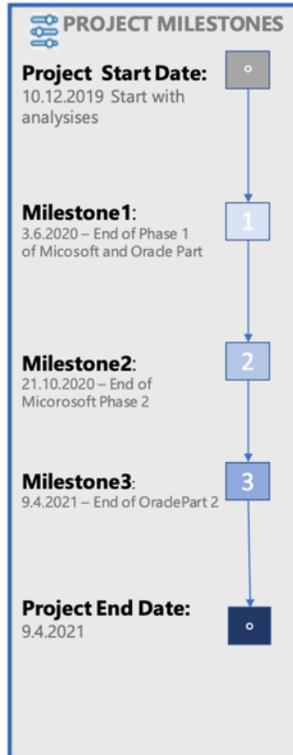
Scope

- Migrate prod Italy ERP to Cloud
- Provision on prem EBS ERP - VCP Servers / StorageClone
- Cloud ERP - VCP to on prem backup
- Enable DG on EBS ERP and enable DG on EBS VCP Backup ERP-VCP
- Prod to cloud for final migration
- Provision Production ERP-VCP Clone and enable DG and Migrate BI to cloud

Methodology

- Move performed by supported Oracle technology
- Oracle E-Business Suite Cloud Manager on OCI
- Evaluate appropriate infra architecture for EBS, VCP, BI
- Instance progression summary
 - Clone Prod to test in OCI, then verify
 - Clone OCI test to OCI Dev and then OCI Fix, then verify
 - Move Prod to OCI
- Optimize cutover duration
 - Production Cut Over using Clone, then backup and applying logs moving forward to minimize cutover downtime
- Complete End to End Regression testing for Integrations between Cloud and On premise vice versa
- Functional Testing process before cutover (ERP, MES)
- Verify Notification Mailer, Printer, Identity management, SOA etc
- Performance Testing and sizing review
- Production cutover would require patch/development blackout
- Production failover/recovery are built in
- Document Standard Operating process and Transition to AMS

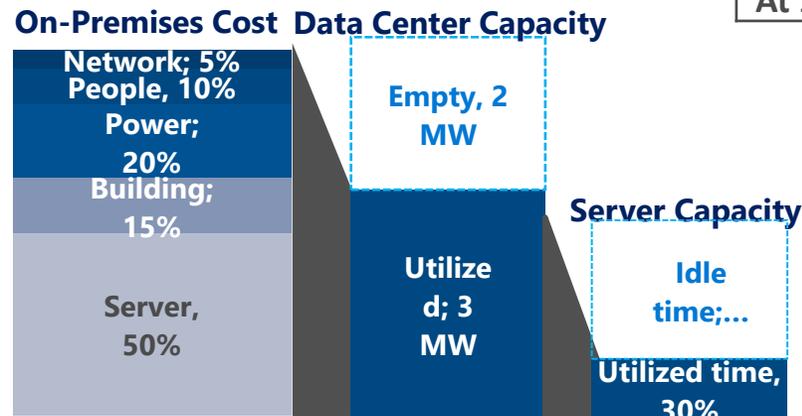
Cloud migration Project



- **POC**
 - Phase 0: OEBS backup to cloud
- **Project start: December 2019**
 - Phase 1: connectivity preparation and testing
 - Phase 2. Azure migration
 - Phase 2: ERP environment migration
- **Project finish: February 2021**

Description	Tier	Size, GB
EBS Apps Tier		500
VCP Apps Tier		500
OBIEE		150
DB Tier		250
DB Data	EBS	1,776
	VCP	208
	OBIEE	477
	Total Per	3,861
At 1Gbps	9hr 47min	

- KPI** System HW maintenance cost **-30%**
- KPI** Security on the systems level **+30%**
- KPI** Maintenance Systems and Data centers **-30%**



Thank you

Oracle Cloud Infrastructure Customer Panel



Sabin Sadean

Head of Hybrid Integration, Platforms & Design

OMV



Oracle Global Leaders Virtual Meeting

November 2021

OMV Group



Agenda

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▶ About Us

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▶ Initial Situation & Target Architecture

3

▶ Cloud Migration Project and Next Steps

About Us



- ▶ OMV produces and **markets oil, gas and chemical** products and solutions
- ▶ Combining **chemical and mechanical recycling** expertise of OMV and Borealis
 - ▶ the group aims to become a leader in the plastics circular economy
- ▶ Group sales **revenues of EUR 17 bn** (in 2020) & a **workforce of around 25,000 employees** (incl. Borealis/2020)



- ▶ Leading the departments **Hybrid Integration, Platforms & Design**
 - ▶ Application & Data Integration
 - ▶ Platforms such as SAP basis & group wide databases
 - ▶ Designing services in the area of
 - Network & Network Security
 - Storage & Backup
 - Compute & Cloud



Agenda

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▶ About Us

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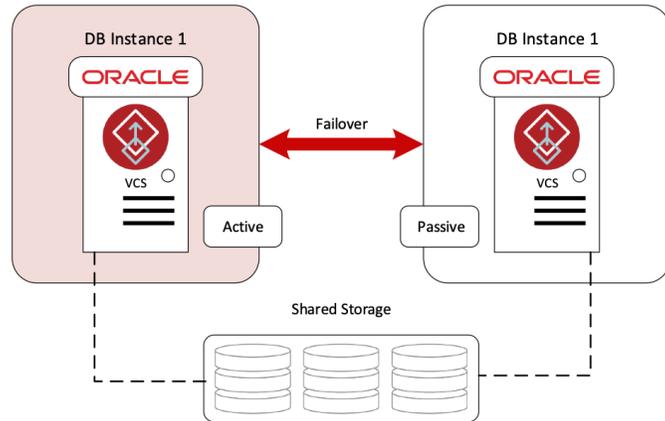
▶ Initial Situation & Target Architecture

3

▶ Cloud Migration Project and Next Steps

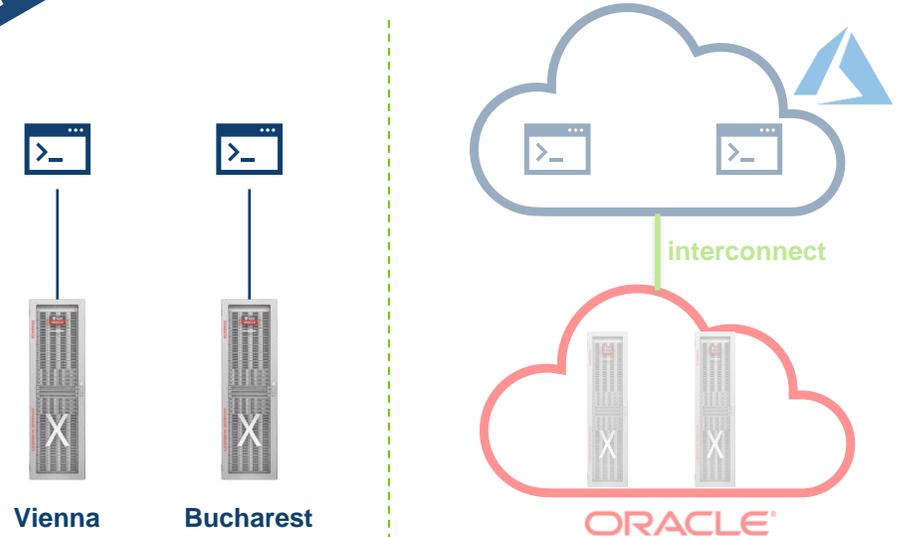
Initial Situation & Target Architecture

Initial Situation



- ▶ Oracle **workloads currently provided on physical clusters in VIE and BUC DCs**, small footprint of decentral databases in other OMV locations
- ▶ **Heterogenous Oracle versions** from 11.2.0.4 to 19c
- ▶ Centralization of databases allows for optimal usage of licenses but comes with **inflexible maintenance packages**
- ▶ **Lack of elasticity** and CAPEX vs OPEX issue
- ▶ **Maintenances requiring downtimes** for applications

Target Architecture



- ▶ **Homogenous Oracle versions**, as much as possible on latest versions
- ▶ **OCPU hours covering all possible options**, removing struggle with maintenance and licensing (multitenant, RAC, Advanced Compression, TDE)
- ▶ **OPEX and consumption-based** charging for **increased elasticity**
- ▶ **Optimization of operational costs** and near to **zero downtime maintenances**
- ▶ **Zero-touch DB deployments**
- ▶ **Public cloud readiness** fitting to strategy

Agenda

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Cloud Migration Project and Next Steps

Migration Project

Scope

- ▶ Reduction of total cost of ownership & elasticity allowing for optimization of costs
- ▶ Migration of all ~300 Oracle DBs in both OMV and Petrom data centers

Challenges

- ▶ **Group wide impact due to critical apps** spanning card payment related systems to trading applications
- ▶ **Coordination and downtime agreements** with application responsible and external partners, as well as **handling the new technology platform**

Migration Details

- ▶ **Migration method based on the databases compatibility** with ExaCC (e.g. database character set, endianness, block size etc), size of the database but also support of the application (especially with the required upgrade):

Physical Layer



RMAN datafiles restore (from backup system or from active database), data guard with or / without broker

Logical Layer

export / import data pump – with variations – using a temporary NFS share, via DB links etc.



Next Steps

Project Tasks

- ▶ Finalization of remaining database migrations
- ▶ Hand-over into operations and defined runbooks for internal operations center integrating with cloud ops interfaces (SRs, escalation paths etc.)

Further Optimization



- ▶ **Optimize / improve OMV internal workflows** to make use of Exadata capabilities and all new features – e.g. **zero-touch deployment**



- ▶ **Migrate** as many applications as possible **to autonomous databases**



- ▶ **Optimize the OCPU usage by**

- ▶ Improving the performance of the migrated databases
- ▶ Improve the OCPU allocation to clusters → dynamic allocation

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Thanks a lot



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