Digital Transformation at Belgium`s largest Port
by Stefanie Meier, compacer

A short overview

149 hectares total port area

2,200 meter quay length

GRIMALDI GROUP

Finnlines
a Grimaldi Group company

ACL

ACR

Antwerp Lashing & Securing

- AET is the largest multipurpose terminal in Europe and home of vessels of the Grimaldi Group

- Specialized in different types of cargo and processes breakbulk, containers, project cargo, heavy lifts, cars and other RoRo-units

- Ideal location which makes it to an intermodal terminal with connections to the sea, road and rail tracks

- Second largest port in Europe

Some figures

4.8km of rail tracks

110 employees
235+ docker pool

149 ha storage area

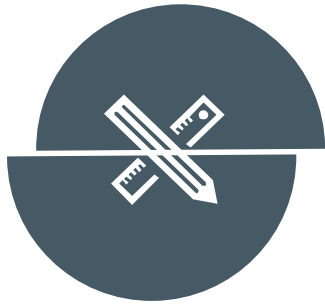**2.3km** of quay accommodated for side-, stern- and quarter ramp vessels

2 RMGs, **2** mobile cranes, **11** RS, **6** empty handlers, **12** TTs, **9** towing jeeps, **60+** other terminal vehicles

@AET

In 2020 they had...

400+ truck visits on daily basis

160K containers

601K vehicles

488 vessel calls

328K tons of general cargo

@AET

Initial situation at AET

Evolving requirements
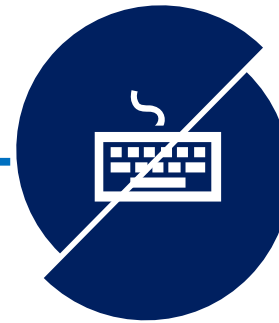
Customer driven

Siloed knowledge

More and more inquiries, specifications, demands and services internally but also from customers, partners and customs came in, so that the IT environment & application landscape that had grown over time could not hold up.

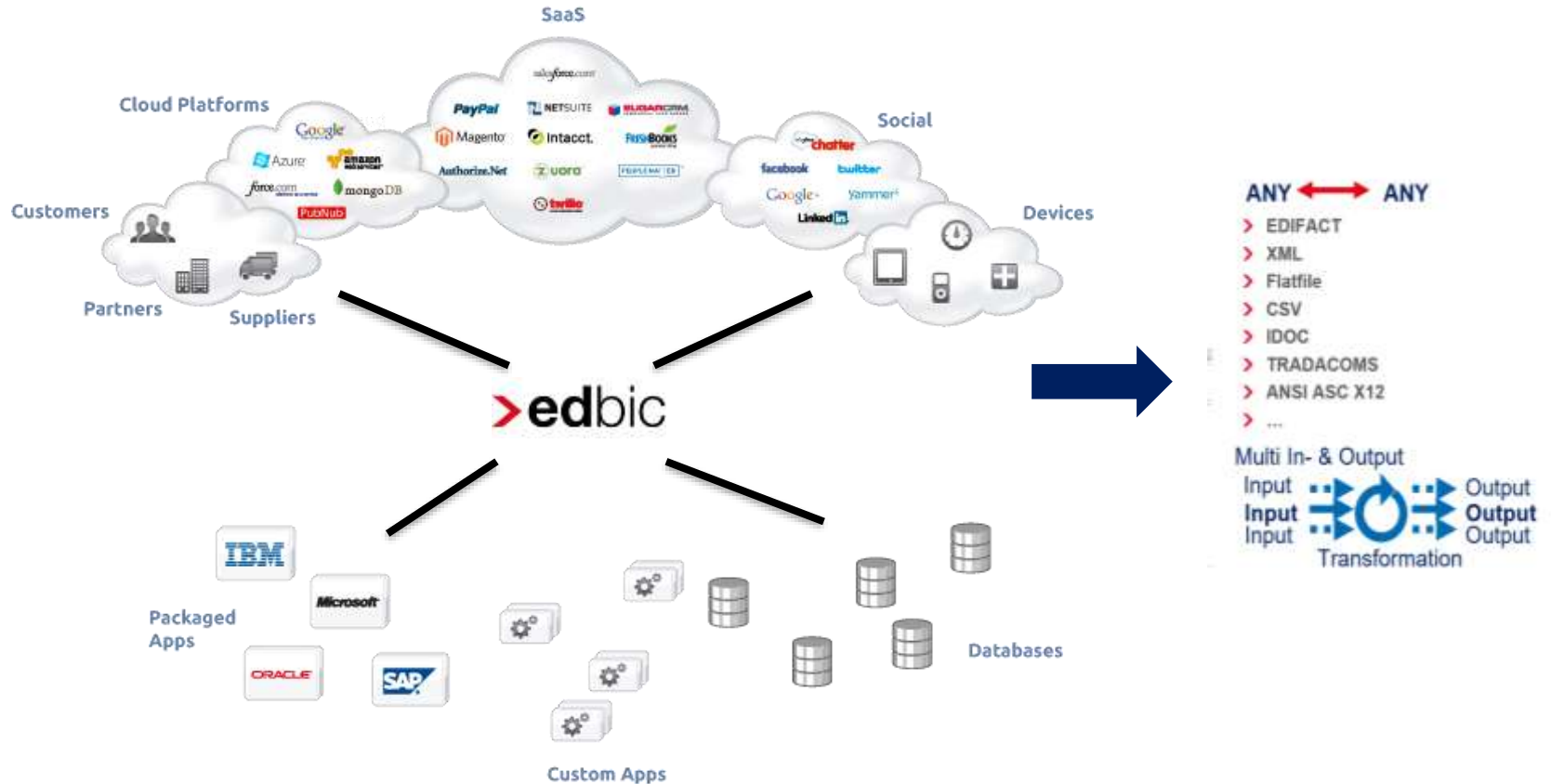a customer expressed a specific wish before an action was taken. No active services could be offered to the customers.
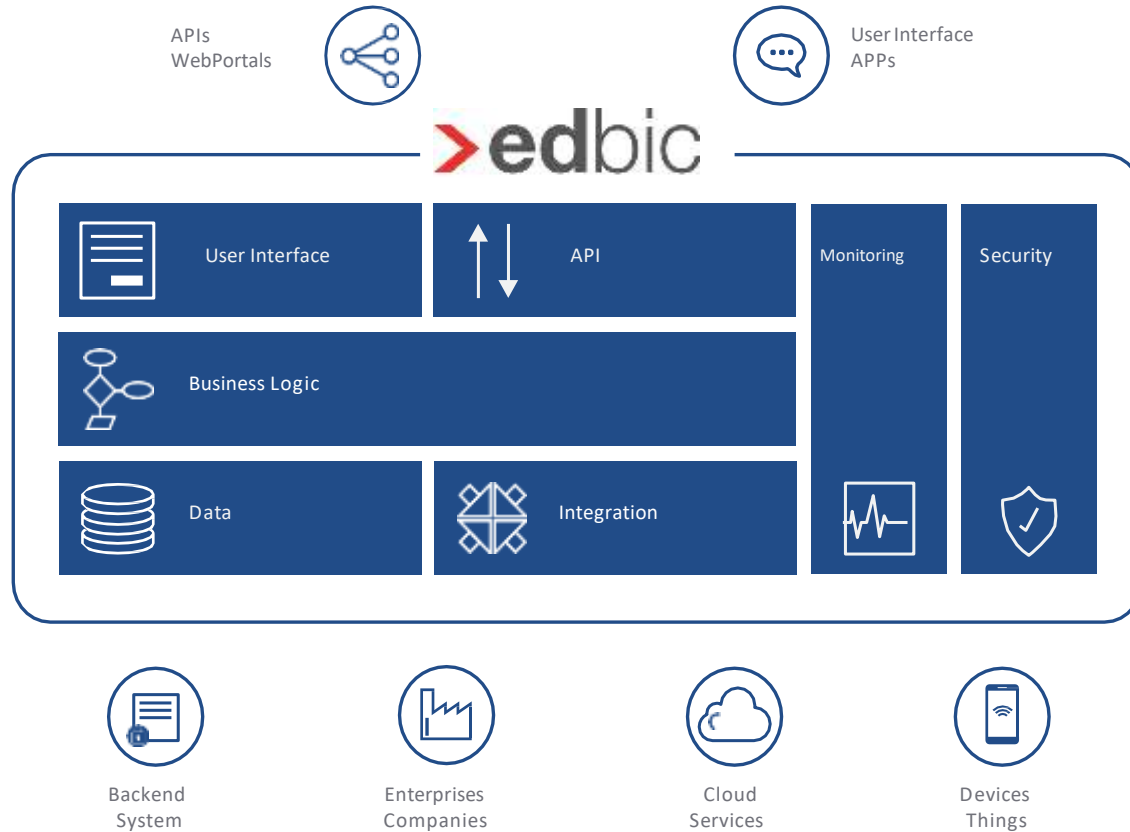
Fragmented and isolated knowledge within the IT department as well as inter-divisional.

Mission: be prepared for the future to offer specific services to customers and partners to stay competitive

The solution: integrating a data hub

How it works

Our motto with edbic

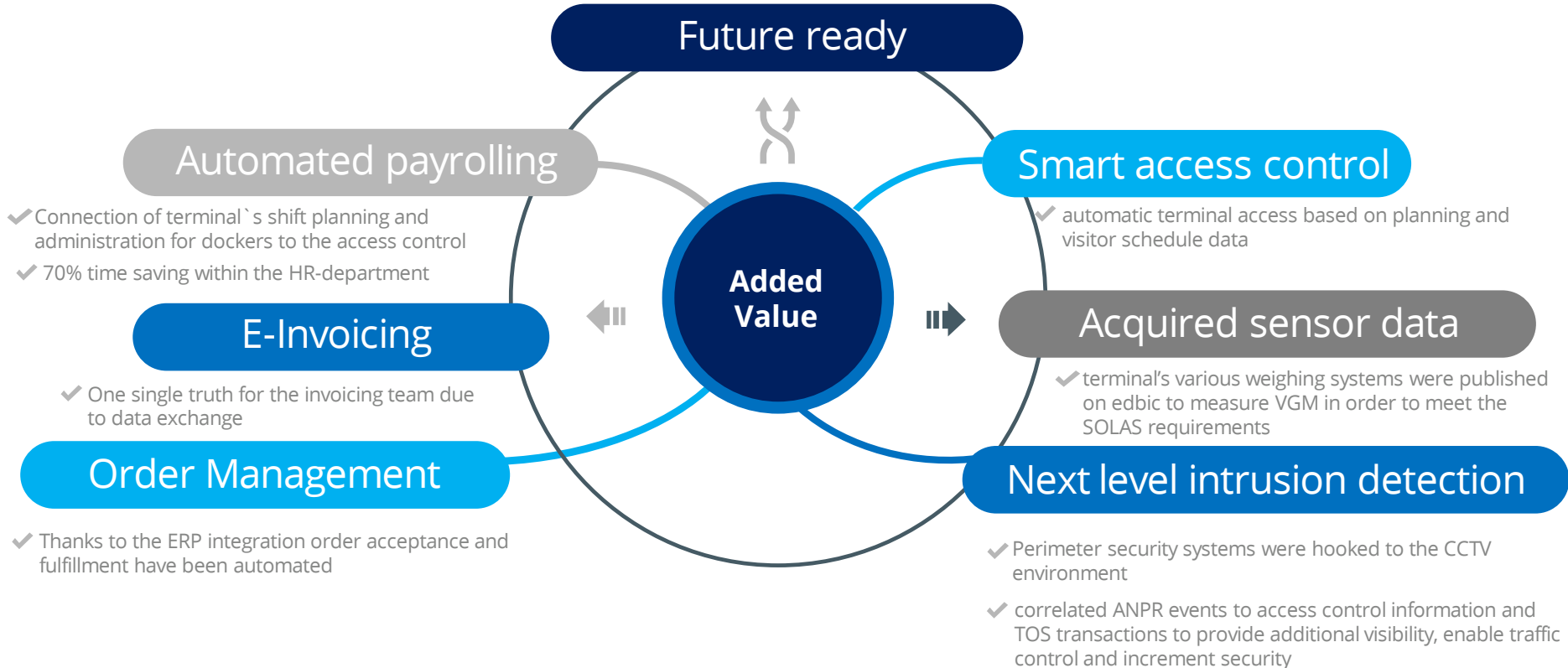
Innovate faster

Reduce Costs and Risks

Integrate Anything with Everything

„With edbic, we were suddenly able to offer services before our customers even asked for them. By now, the proactive development of new services has become a matter of course. Something like this wouldn't have been possible in the past."

(Tim Pieters, IT System Engineer, AET)

Positive impact for AET

Future ready

Automated payrolling
- Connection of terminal`s shift planning and administration for dockers to the access control
- 70% time saving within the HR-department

E-Invoicing
- One single truth for the invoicing team due to data exchange

Order Management
- Thanks to the ERP integration order acceptance and fulfillment have been automated

Added Value

Smart access control
- automatic terminal access based on planning and visitor schedule data

Acquired sensor data
- terminal's various weighing systems were published on edbic to measure VGM in order to meet the SOLAS requirements

Next level intrusion detection
- Perimeter security systems were hooked to the CCTV environment
- correlated ANPR events to access control information and TOS transactions to provide additional visibility, enable traffic control and increment security

The advantages

Rapid ROI

Digitalization projects in the **shortest possible time** with the **best cost-benefit ratio**

Heavy reduction in time-to-deployment

Less manual workload

Increased productivity and **security**

new **insights** for all parties

flexible integration strategy

Better analysis and processing of logistics and sensor data

Acquisition of data from weighing- and other sensors, capture of CCTV- and perimeter security events.

Data enrichment, conversion and correlation

Process Transparency

Near-real time data exchange with key stakeholders on cargo, status and planning.

Enhanced visibility over cargo, people and traffic flows

Standardized processes

"I am as enthusiastic about working with compacer as I am about their products. Above all, they are impressively creative when it comes to finding solutions, and their flexibility and commitment are equally remarkable. With compacer, I know that I have a reliable partner at my side and that gives me a comfortable feeling."

(Tim Pieters, IT System Engineer, AET)

What`s next

compacer
Member of >eurodata Group

AET

Certified pick-up project that enables container pick-up using biometrics

Monitoring of wind turbines

Smart tag-less vehicle tracking

Dynamic terminal lighting based on TOS & intrusion detection events

Container & rail equipment recognition with standard CCTV cams

Digital Twin Project

Energy Management & Optimisation

„*Those who stop being better, stop being good!*"

(Oliver Cromwell / Philip Rosenthal)

Thanks for your attention!

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