

iAdvise & ITC Rubis

Optimizing an existing truck planning with Oracle Application Express



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Agenda



Introduction

Business case

Process

Architecture

Project

Benefits

Recap

iAdvise

< Tech with a soul >



co-Advise

At iAdvise, we investigate what our clients **need** and how our solutions can meet those needs.

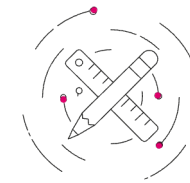
We bring all stakeholders around the table and brainstorm **together**.



Low-code development

We build our applications using a **low-code platform** within the Oracle Database.

The benefits?
A **fast time-to-market** and
low error margin.



Progressive Web Apps

Progressive Web Apps are a strong **alternative** to the high costs of a native app. With a PWA, you build one app that can be used on any platform.

PWAs **reduce friction** and
increase conversion.



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With Oracle Application Express

ITC RUBIS

Our company in a nutshell

Based in port
of Antwerp,
Belgium



Tank storage
for liquid & gas
products



State-of-the-
art
infrastructure



Total storage
capacity of
225,000cbm



Strategic
location with
extensive
expansion
possibilities



Zero emission
terminal

63 tanks
(mild/stainless
steel)

4 gas bullets



Expansion
possibilities up
to
500,000cbm



Highest safety
standards



6 berth
positions for
barges &
seagoing
vessels



Excellent rail
infrastructure
for handling
block trains

Direct gas
transloading
from barge to
RTC



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ITC RUBIS

Our company in a nutshell



2008

- Company founded
- Construction Phase-I started



2012

- Further expansion of Phase-I: Construction of tank pit 3



2015

- Construction of Phase-II started



2017

- Commercial operation of tank pit 5a



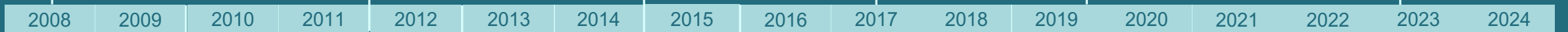
2019

- Completion tank pit 5b



2023

- Completion tank pit 6



2010

- Commercial operation of first tanks



2013

- Commercial operation of tank pit 3
- 2 extra barge positions



2016

- Barge-to-RTC for C3/C4 gases
- Commercial operation tank pit 4
- 2 extra jetty positions



2018

- Construction of tank pit 5b started



2021

- Construction of tank pit 6



2024

- Construction of tank pit 7

PHASE-I

PHASE-II



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Business case

Need for:

- No more MS Excel or off-the-shelf planning tool
- TMS integration
- Slot booking
- Insights!



Referentie	Dte	Timeslot	Customer	Product	Operatie	Invoice in	Tank	MT	Truckload	Surveyor	TRANSPOR...	OPM...	Status	Person	IN
CEK0087033/07	nov. 22	12:00	Karawé Europe B.C.	Adel A.60	LOADING	NVT	105	27	TL01	NVT	TBN	UK	T2		✓
80537801	nov. 22	16:00	CCO... ..	CCO...	LOADING	NVT	505	24	LLS13	NVT	afgekeurd...	mag...	I2		
80988476	nov. 22	16:00	CCO... ..	van...	LOADING	NVT	104	25	TL02	NVT		DE	T2		
80994105	nov. 22	12:00	CCO... ..	van...	LOADING	NOK	104	25	TL02	NVT	van ziel	DE	T2		
80994106	nov. 22	14:00	CCO... ..	van...	LOADING	NOK	104	25(3)	TL02	NVT	van ziel	DE	T2		
480000043/170-80013809	nov. 22	16:00	CCO... ..	VivA Adela	LOADING	NVT	203	24	TL02	NVT	TBN	FR	T2		
480000043/180-80013810	nov. 22	18:00	CCO... ..	CCO...	LOADING	NVT	203	24	TL02	NVT	TBN	FR	T2		
4500970521/110	nov. 22	14:00	CCO... ..	CCO...	LOADING	NVT	406/408	29	LLS11/13	NVT	TBN	IT	T2		
4500970521/120 - 10003382/120	nov. 22	14:00	CCO... ..	CCO...	LOADING	NVT	406/408	29	LLS11/13	NVT	TBN	IT	T2		
DMY-21-0767	nov. 22	16:00	CCO... ..	CCO...	LOADING	NVT	407	27.5	LLS09	NVT	TBN	nl	T2		
80552487	nov. 22	10:00	CCO... ..	CCO...	LOADING	NVT	501/502	22	LLS17	NVT	Lanfer	fr	DGD		✓
80555530	nov. 22	18:00	CCO... ..	CCO...	LOADING	NVT	501/502	25	LLS17	NVT	afgekeurd...	HU	T2		
80555335	nov. 22	14:00	CCO... ..	CCO...	LOADING	NVT	501/502	19,3	LLS17	NVT	bulkhaul 1	BE	T2		
80555444	nov. 22	12:00	CCO... ..	CCO...	LOADING	NVT	501/502	19,3	LLS17	NVT	bulkhaul 1	BE	T2		
80555443	nov. 22	16:00	CCO... ..	CCO...	LOADING	NVT	501/502	19,3	LLS17	NVT	bulkhaul	BE	T2		
80556455	nov. 22	12:00	CCO... ..	CCO...	LOADING	NVT	107	25	TL02	NVT	TBN	IT	T2		✓
80543480	nov. 22	10:00	CCO... ..	CCO...	LOADING	NVT	506	25	LLS11	NVT	TBN	FR	I2		✓
8104846478	nov. 22	20:00	CCO... ..	CCO...	LOADING	NVT	206	26	TL02	NVT	TBN	IT	T2		
80555628	nov. 22	12:00	CCO... ..	CCO...	LOADING	NOK OK	101/509	15,6	LLS15/19	NVT	TBN	RUS	T2		✓
80555627	nov. 22	12:00	CCO... ..	CCO...	LOADING	OK	101/509	15,6	LLS15/19	NVT	TBN	RUS	T2		✓



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Process



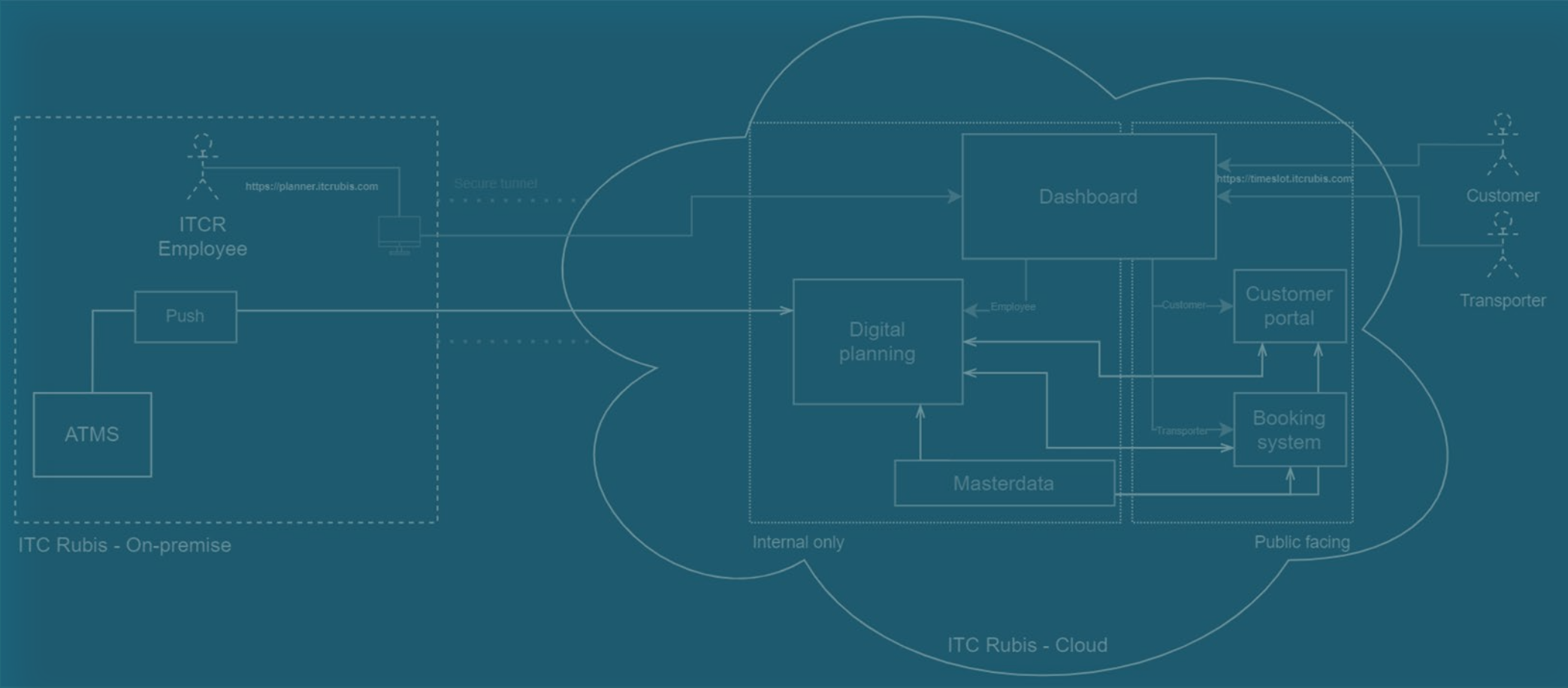
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Architecture



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Project



Functional analysis

- End-to-end flow
- Focus on the process

The screenshot displays a truck planning application. The main view is a resource grid for November 23, 2021, showing time slots from 11am to 11pm. Resources include Jetty 1-6, Truck TL01, TL02, and TL03. A sidebar on the right shows a detailed view for a truck (9008021) with a 'Free' status and a 'Transaction log' entry for 'Others/Self-collector' with an arrival delay of 30 minutes. A navigation menu on the right includes 'Overview', 'Open bookings', 'Time slot definition', 'Transaction log', 'Master data', and 'Search'.



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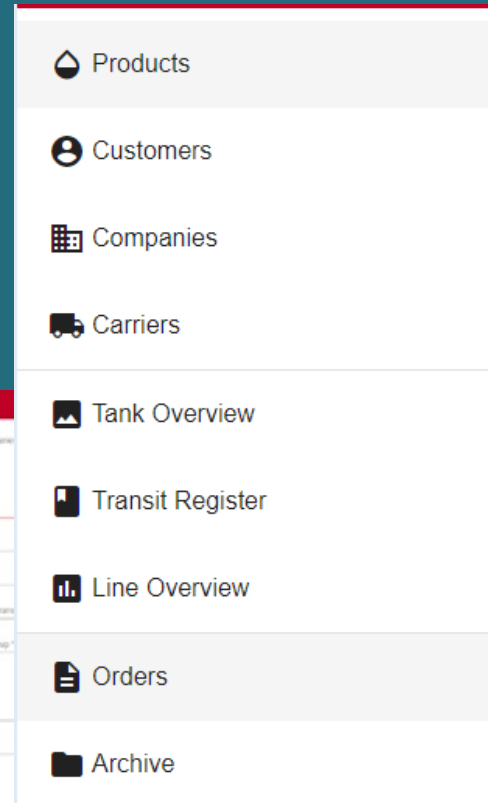
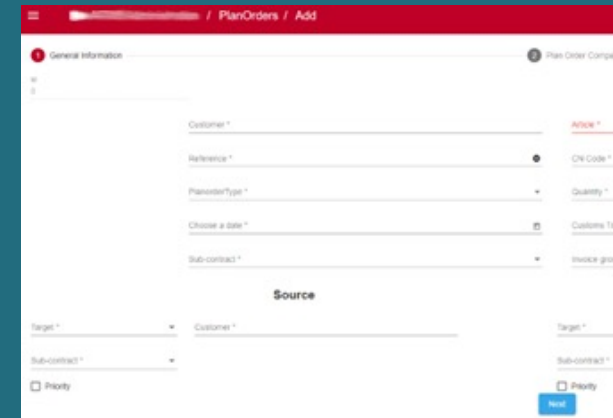
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Inventory as-is

- Current tools in-place?
- Capabilities & limitations of each tool?



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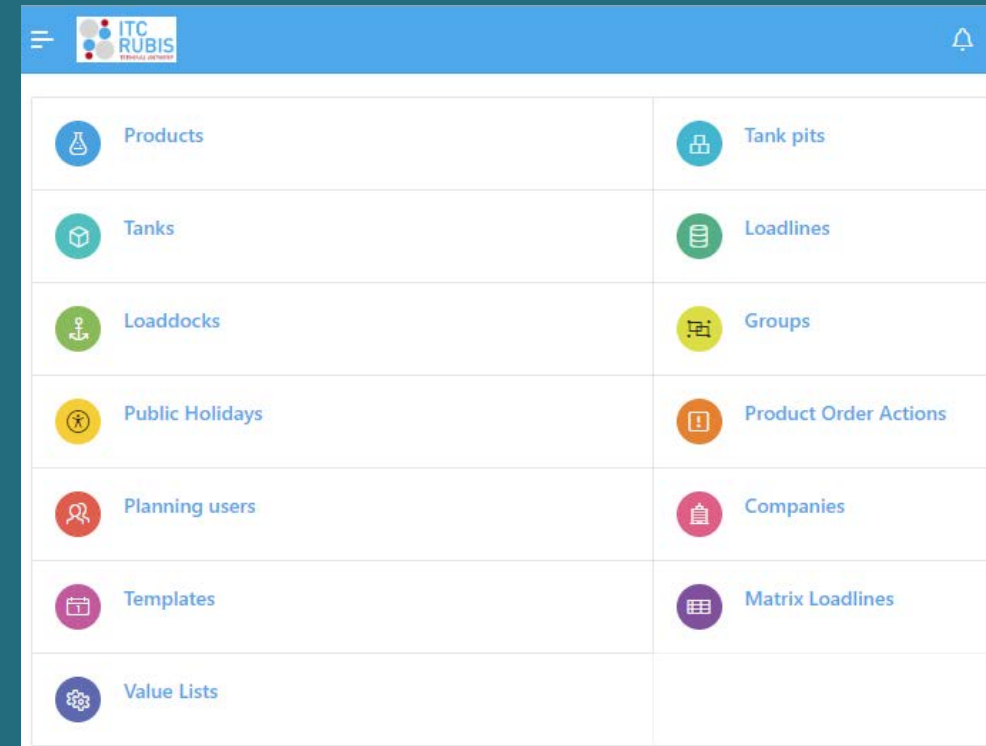
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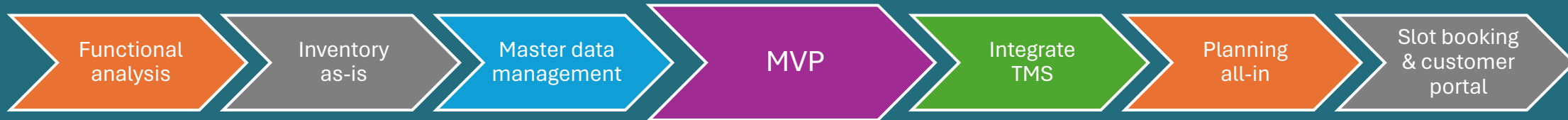


Master data management

- Which master data is needed?
- What exists already?
- Need synchronization?



Project



MVP

- Minimum viable product
- Basic planning system
- Go-live!

→ ROI starts

Comments	Customer Ref	Timeslot	Customer	Product	Operation	Destination	Tank	Quantity (KG)	Truckload	Arrived?	Archived?
	80639696	18-04-2024 18:30	VVVVVVVVVVVVVVV	EEEEEEEEEE	Truck Unloading	Belgium	404	30680	LLS11	✓	✓
	80640975	18-04-2024 18:30	VVVVVVVVVVVVVVV	EEEEEEEEEE	Truck Unloading	Belgium	404	30660	LLS9	✓	✓
	80640964	18-04-2024 15:00	VVVVVVVVVVVVVVV	EEEEEEEEEE	Truck Unloading	Belgium	404	30720	LLS9	✗	✓
	80640921	18-04-2024 15:00	VVVVVVVVVVVVVVV	EEEEEEEEEE	Truck Unloading	Belgium	404	30500	LLS11	✓	✓
	80082504	18-04-2024 15:00	VVVVVVVVVVVVVVV	EEEEEEEEEE	Truck Loading	France	203	24000	TL2/1	✓	✓
	80640980	18-04-2024 16:30	VVVVVVVVVVVVVVV	EEEEEEEEEE	Truck Unloading	Belgium	404	30700	LLS9	✓	✓
	80640925	18-04-2024 16:30	VVVVVVVVVVVVVVV	EEEEEEEEEE	Truck Unloading	Belgium	404	30720	LLS11	✓	✓
	80082505	18-04-2024 16:30	VVVVVVVVVVVVVVV	EEEEEEEEEE	Truck Loading	France	203	24000	TL2/1	✓	✓
	80082698	18-04-2024 16:30	VVVVVVVVVVVVVVV	EEEEEEEEEE	Truck Loading	Germany	406	24000	LLS13	✓	✓
	80640909	18-04-2024 18:00	VVVVVVVVVVVVVVV	EEEEEEEEEE	Truck Unloading	Belgium	404	30000	LLS11	✗	✗
	PCN000901/04-15	18-04-2024 18:00	VVVVVVVVVVVVVVV	EEEEEEEEEE	Truck Loading	Spain	511	26400	LLS17	✓	✓
	81232769	18-04-2024 18:00	VVVVVVVVVVVVVVV	EEEEEEEEEE	Truck Loading	Netherlands	207	27800	TL2/2	✓	✓
	pcn000907/04-3	18-04-2024 18:00	VVVVVVVVVVVVVVV	EEEEEEEEEE	Truck Loading	Netherlands	511	23000	LLS15	✓	✓
	80082697	18-04-2024 18:00	VVVVVVVVVVVVVVV	EEEEEEEEEE	Truck Loading	Germany	406	23500	LLS13	✓	✓
	80640911	18-04-2024 18:00	VVVVVVVVVVVVVVV	EEEEEEEEEE	Truck Unloading	Belgium	404	29900	LLS9	✓	✓
	80640976	18-04-2024 19:30	VVVVVVVVVVVVVVV	EEEEEEEEEE	Truck Unloading	Belgium	404	30720	LLS11	✓	✓
	80640974	18-04-2024 19:30	VVVVVVVVVVVVVVV	EEEEEEEEEE	Truck Unloading	Belgium	404	29800	LLS9	✓	✓



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Project



Integrate TMS

- Order synchronization
- Less manual entry

→ Usability going up

Unplanned Orders	Planned Orders
509 - H Heeren (Q6)	
0081128622	
509 - H Heeren (Q6)	
0081128612	
509 - H Heeren (Q6)	
0081128611	
509 - H Heeren (Q6)	
0081119510	
509 - H Heeren (Q6)	



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Slot booking & customer portal

- Close the loop
- Transporters book own slots
- Customers have insights

→ Less time on calls & emails

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Create Booking

certificate, vacuum certificate and oxygen certificate stating the seal numbers that were applied after flushing.

Remark

Cleaning Option
Cleaned

Booking Date
23-04-2024

Show
Best options All options

06:00 Purge + Truck Loading	12:00 Purge + Truck Loading
13:30 Purge + Truck Loading	15:00 Purge + Truck Loading



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Benefits

Quantitative benefits: approx. €8k/month

Qualitative benefits

Keep workload manageable

Optimized terminal asset usage

More transparency for customers

Improved efficiency at customer service dept: approx. 30%



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Recap

Analyze

Engage

Deliver



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Q & A

Want to know more?



Check-out the reference case on our website
iadvice.eu/portfolio/nieuwe-planningstool-bij-itc-rubis



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