Replacing BizTalk with eMagiz

Project description of the migration of the BizTalk environment of Customer X to an eMagiz environment.

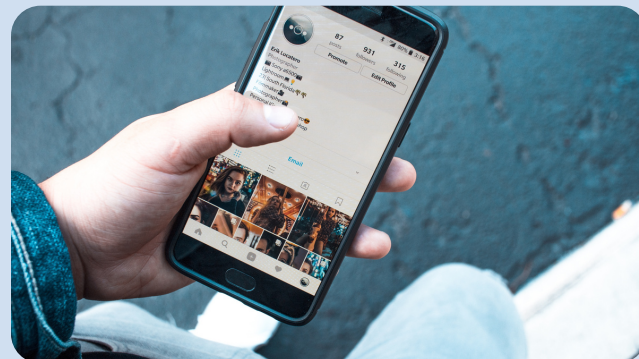# Rationale & guiding principles

01. Cost Control

- The (out-of-the pocket) yearly costs of the BizTalk platform lies around 65K euro per year (licenses and infrastructure).
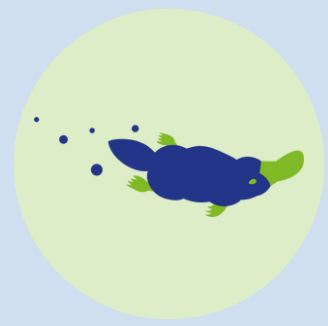

02. ROI / Total Cost of Ownership

- Customer X wants solutions that have a short ROI-period and preferably lead to a structural lower TCO.
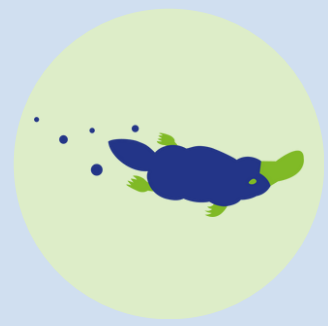

03. Continuity / Risk Mitigation / Roadmap

- Microsoft will discontinue software support on BizTalk somewhere in the near future.
- Internal BizTalk knowledge is scarce and concentrated in one person.
- Microsoft intends to offer Azure services as replacement for BizTalk. But this proposition will exist out of a variety of services that need to be designed, combined, deployed, integrated and managed by the end-customer. Shift from an iPaaS (BizTalk) to a huge variety of SaaS combinations (Azure).
- A new solution should at least deliver the same functionality as the BizTalk platform (and preferably more).
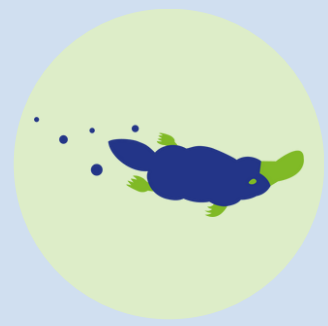
Workshop - Current state (1)

Solution Architecture BizTalk environment Customer X (Current setup)

- **Baan 5 is used for European sites**
  - Infor LN might be replacing Baan 5
- **Baan 4 is still used in Legacy Applications (warehouse admin)**
  - Infor LN might be replacing Baan 4
- **Everything is on-hold**
  - Currently, the idea is that home country (Asia) takes charge and puts everything to SAP
- **Baan 5 servers hosted in home country (Asia)**
  - Baan 4 to be upgraded to new hardware and run Baan 5 also on it in Europe
- **Navision (as of today Infor LN)**
  - Some models are imported from Country X and Country Y
  - Order2Cash process is done in Navision
  - Parts are transported to Rotterdam and them assembled in Europe
- **Finance uses Infor LN**
- **Service on models (machines)**
  - Custom built application called Shark.Net. Build in a .Net application

- **HO apps in Europe (for buying)**
  - Infor CPQEQ
  - Mendix (for specific processes)
- **Production in home country also uses Baan 5**
- **Spare parts organization in Country X uses PWINS (IBM Mainframe)**
- **For Service in Country X (bit the same as Shark) called G**S and EQ***re (build in Java)**
- **Roadmap for home country will probably be Microsoft Azure**
- **SAP in Country Z**
- **EDI exchange is Infor Nexus**
- **Spare parts P***es both used in Country Z and Country W. Country Z wants to move this to SAP**
- **Roadmap for Country Z will probably also be in Microsoft Azure**
- **Country W uses P***es**

Workshop - Current state (2)

Middleware solutions, Message formats and Integration patterns currently at Company X

Middleware Solutions

- **Microsoft BizTalk + Atomic Scope**
- **IBM MQ**
  - Type I, II, III
  - Type I is synchronous communication
  - Type II is asynchronous communication (fire and forget) - perhaps with a correlation ID
  - Type III is a file transfer (via queues splitted up in a control queue and a data queue)
- **eMagiz**
- **Microsoft Azure: Logic Apps, Event Hubs, Messaging**
- **Powershell + other scripting**
- **Microsoft SSIS**
  - ETL / Batch oriented
- **Point-to-point**
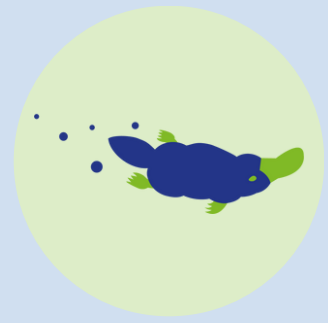 - People bypass the middleware because they 'think' it's faster

Message formats

- **Positional txt with multiple record format**
- **CSV/DSV**
- **XML (custom format, xCBL, cXML, Oagis)**
- **JSON, NDJSON**

Integration Patterns

- **Publish / Subscribe**
  - Context based routing (based on technical information)
  - Content based routing (based on content in the message)
  - Topic based routing (mixture of both, based on that add the topic)
- **Orchestrations / Data flows**
  - Decision tables
  - Rule engine
  - Message flows
- **Event Streaming**
- **Synchronous request/reply**
- **Synchronous solicit/response**
- **Asynchronous fire & forget**
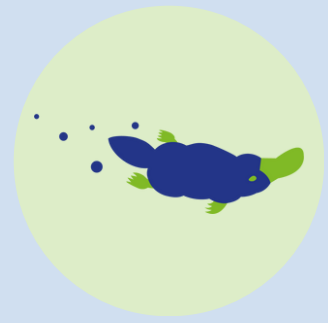- **Asynchronous messaging with correlation ID's**

Workshop - Current state (3)

Requirements

✓ **Reliable messaging:**
  - Need to know where messages have gone. Put message in a queue and wait for it to be arrived
  - AS2 is part of this also

✓ **Message tracking, based on 'promoted properties'**
  - What happened to my Invoice for example?
  - Company X uses a side product called Atomic Scope for this to give to key users

✓ **EDI portal, possibility for key users to resume messages**
  - Resend possibility for both succeeded and failed messages

✓ **Archiving (legal requirement)**
  - Some documents need to be archived for a certain period of time

✓ **ALS is the most critical one and the most concerning one**

Pre-requisites before starting the project

Company X
- **Upgrading current M-size infrastructure to L-size**
  - Necessary independent from BizTalk project but also catering for the need of the BizTalk migration. (ASAP)
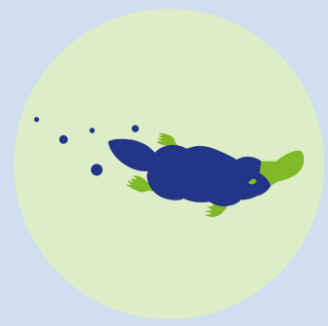
eMagiz
- **Product development:** Development of standardized connection to IBM MQ (During Q1 2023)

eMagiz
- **Product development:** Enable GPG for encrytion and decryption to BANK X (During Q1 2023)

Phasing & cost of the migration project
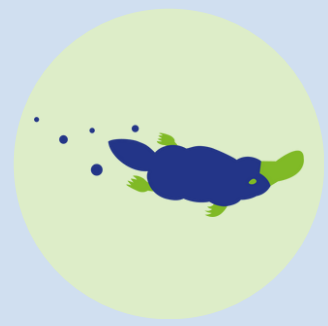
Phasing of Migration

1 **Phase 1: File moves**
- Easy to migrate
- No Atomic Scope needed
- No MQ setup needed
- AS2 Connectivity needed

2 **Phase 2: Technical challenges**
- GPG encryption
- ALS communication
- Transformations
- Determine & implantation Atomic Scope needed
- Keep MQ setup out for now

3 **Phase 3: Remainder**
- MQ setup connections

Time & Material

1 **Phase 1: File moves €X.XXX,-**
- 2 days to migrate (Integration Partner)
- 5 days to test (Company X)
- 3 days PM, training and expert services (eMagiz)

2 **Phase 2: Technical challenges €XX.XXX,-**
- 15 days to migrate (Integration Partner)
- 20 days to test (Company X)
- 7 pays PM, training and expert services (eMagiz)

3 **Phase 3: Remainder €XX.XXX,-**
- 10 days to migrate (Integration Partner
- 20 days to test (Company X)
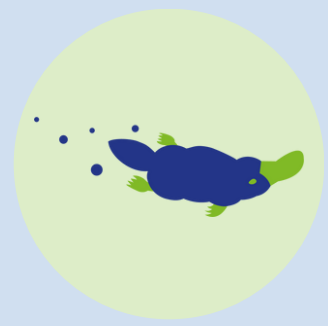- 5 days PM, training and expert services (eMagiz)
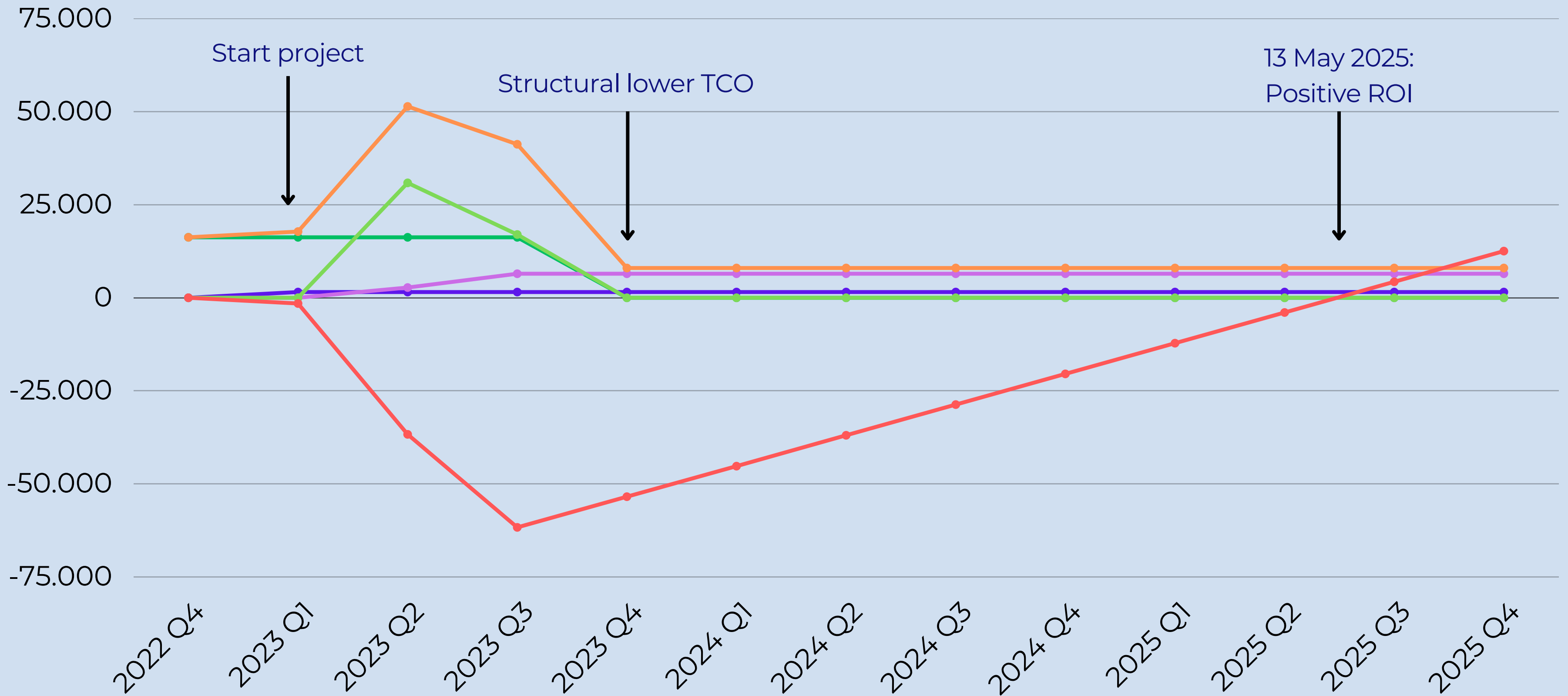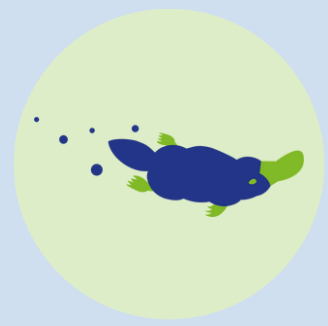
Total cost € XX.XXX,-

Platform investment

Quantity	Description license scope	Unit price/year	Line total
4	**eMagiz universal flowpacks:** • 1 universal flowpack (20 flows) Upgrading total available flows from x to x (estimated flows needed for full BizTalk replacement 45-64 flows, AS2 service XXS pack 24 flows)	€XXXX	€XXXX
1	**AS2 Service:** eMagiz infrastructure Cloud for AS2 service including 1 XXS variable pack - 0-500 AS2 messages / month (24 flows per year)	€XXXX	€XXXX

1	**eMagiz Cloud upgrade for current environment**
	• Cloud M2020 to Cloud L2023, including:
	  ○ Multilane High Available set-up in 2 data centers for production and acceptance environments;
	  ○ Singlelane High Available set-up in 2 data centers for test environment;
	  ○ Autohealing
	  ○ Uptime guarantee 99,9%
	• 3 Environments AWS Frankfurt;
	  ○ Production
	  ○ Acceptance
	  ○ Test
	• Upgrade from M to L;
	• All reserved instance, 1 year upfront;
		€XXXX	€XXXX

	Total yearly eMagiz Subscription		€XXXXX

TCO development and ROI

	2022 Q4	2022 YEAR	2023 Q1	2023 Q2	2023 Q3	2023 Q4	2023 YEAR	2024 Q1	2024 Q2	2024 Q3	2024 Q4	2024 YEAR	2025 Q1	2025 Q2	2025 Q3	2025 Q4	2025 YEAR
BizTalk	€XXX	€XXXX	€XXX	€XXX	€XXX	€0	€XXXX	€0	€0	€0	€0	€0	€0	€0	€0	€0	€0
eMagiz																	
Upgrade cloud	€0	€0	€XXX	€XXX	€XXX	€XXX	€XXXX	€XXX	€XXX	€XXX	€XXX	€XXXx	€XXX	€XXX	€XXX	€XXX	€XXXX
Upgrade licenses	€0	€0	€XXX	€XXX	€XXX	€XXXX	€XXX	€XXX	€XXX	€XXX	€XXX	€XXXX	€XXX	€XXX	€XXX	€XXX	€XXXX
TCO	€XXX	€XXXX	€XXX	€XXX	€XXX	€XXX	€XXXX	€XXX	€XXX	€XXX	€XXX	€XXXX	€XXX	€XXX	€XXX	€XXX	€XXX
Delta in TCO			€XXX	€XXX	€XXX	-€XXX	€XXXX	-€XXX	-€XXX	-€XXX	-€XXX	-€XXXX	-€XXX	-€XXX	-€XXX	-€XXX	-€XXXX
eMagiz/Integration partner																	
Project costs				€XXX	€XXX	€XXX	€XXXX										
ROI	€0	€0	-€XXXX	-€XXXX	-€XXXX	-€XXXX	-€XXXX	-€XXXX	-€XXXX	-€XXXX	-€XXXX	-€XXXX	-€XXXX	€0	€XXXX	€XXXX	

TCO development and ROI

	75.000
	50.000
	25.000
	0
	-25.000
	-50.000
	-75.000

Start project

Structural lower TCO

13 May 2025:
Positive ROI

2022 Q4 · 2023 Q1 · 2023 Q2 · 2023 Q3 · 2023 Q4 · 2024 Q1 · 2024 Q2 · 2024 Q3 · 2024 Q4 · 2025 Q1 · 2025 Q2 · 2025 Q3 · 2025 Q4

BizTalk supports ends in 2028

How are you replacing it?

Lets brainstorm together!
Reach out if you want to know more about a
BizTalk migration. We're happy to help!

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