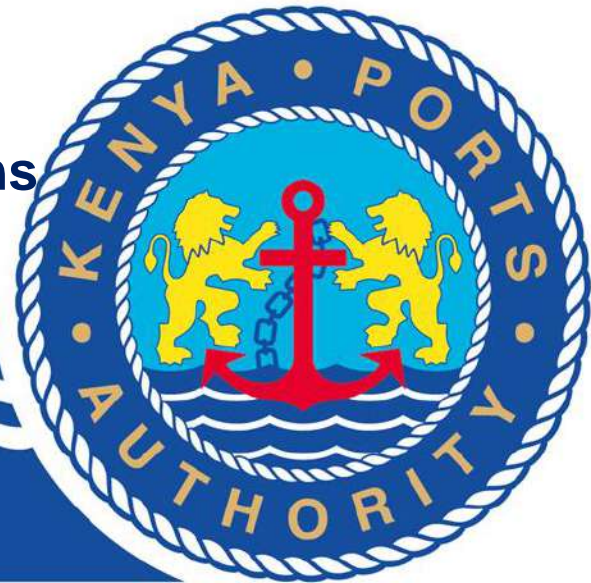


TOS REVIEW, DESIGN AND IMPLEMENTATION

Presented by
Evelyn Mwamure
Head of Container Operations
1st March, 2018

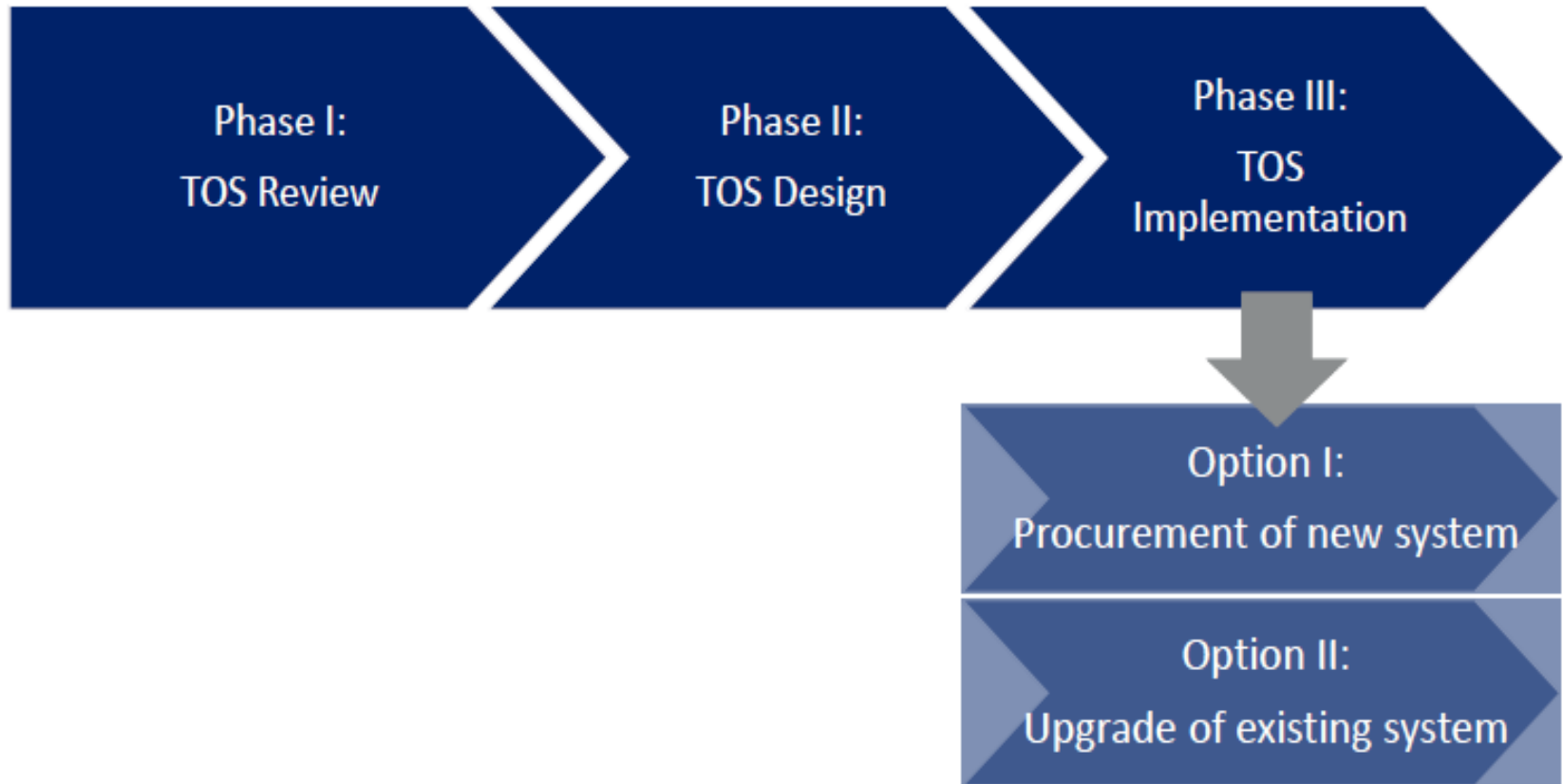


Highlights

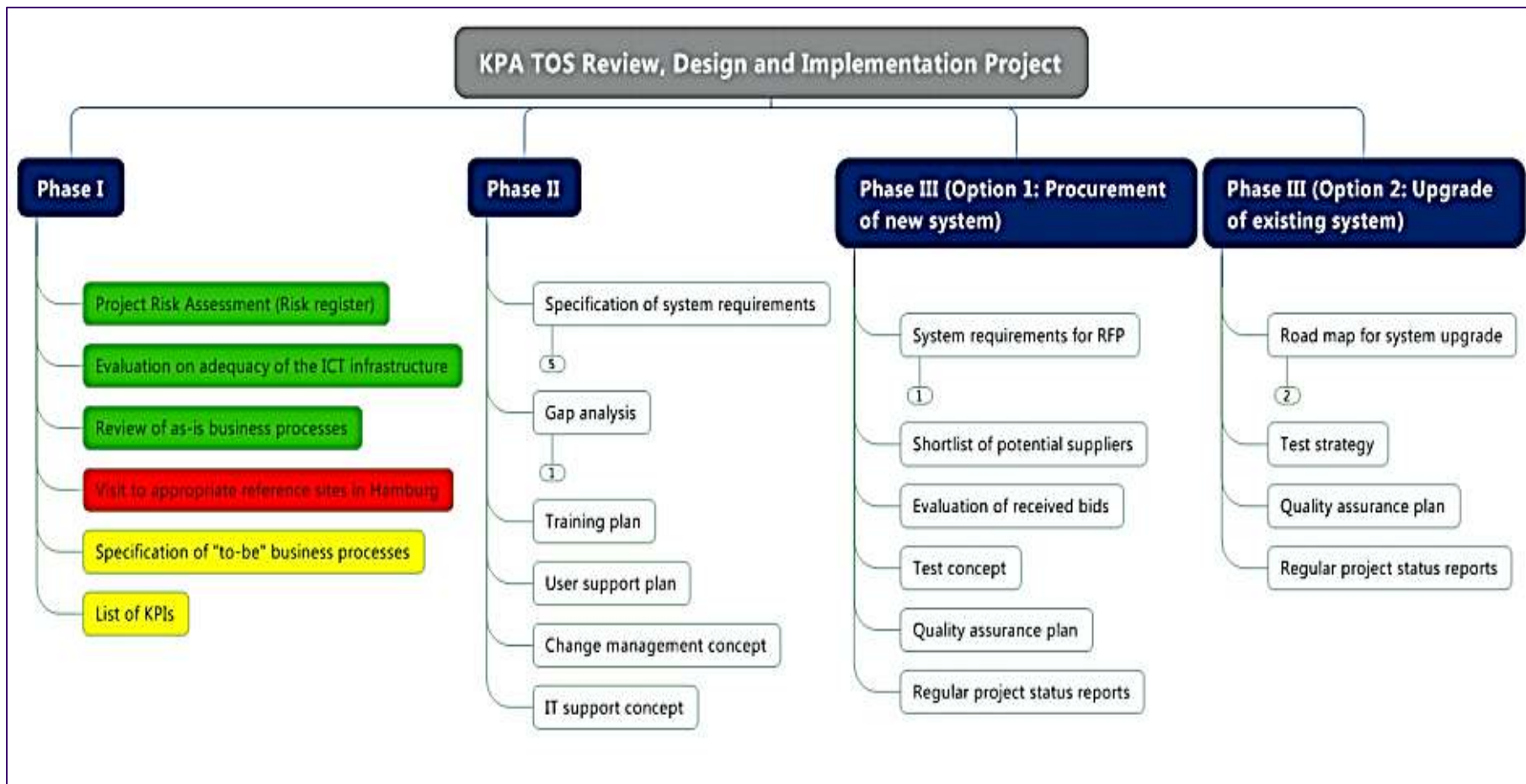
- KPA Awarded HPC Consulting a contract
- To Review, Design and Implement a Terminal Operating System, which could entail upgrade of existing TOS



HPC TOS Review Scope of Work



TOS Review Project Status Update



TOS Review Progress for phase I

| DELIVERABLES/MILESTONES | DESCRIPTION | STATUS UPDATE |
|--|--|---------------|
| Business Process Review (As - Is processes) | Project Kick Off Meeting | Done |
| | Interviews on KPA's AS-IS Business Processes | |
| | Analysis of the AS-IS Business Processes | |
| | PIT Feedback to HPC on AS-IS Business Processes | |
| | Board Report on AS-IS Business Processes | |
| | AS-IS Business Process Sign off | |
| Business Process Re-Engineering (TO-BE workshops) | Workshop discussions of TO-BE business processes | Done |
| | TMEA involvement in the TO-BE discussions | |
| | PIT Feedback to HPC on TO-BE business processes | |
| | GMO briefing on TO-BE Processes | |
| | Board Report on AS-IS Business Processes | |
| | TO-BE Business Process Sign off | Pending |

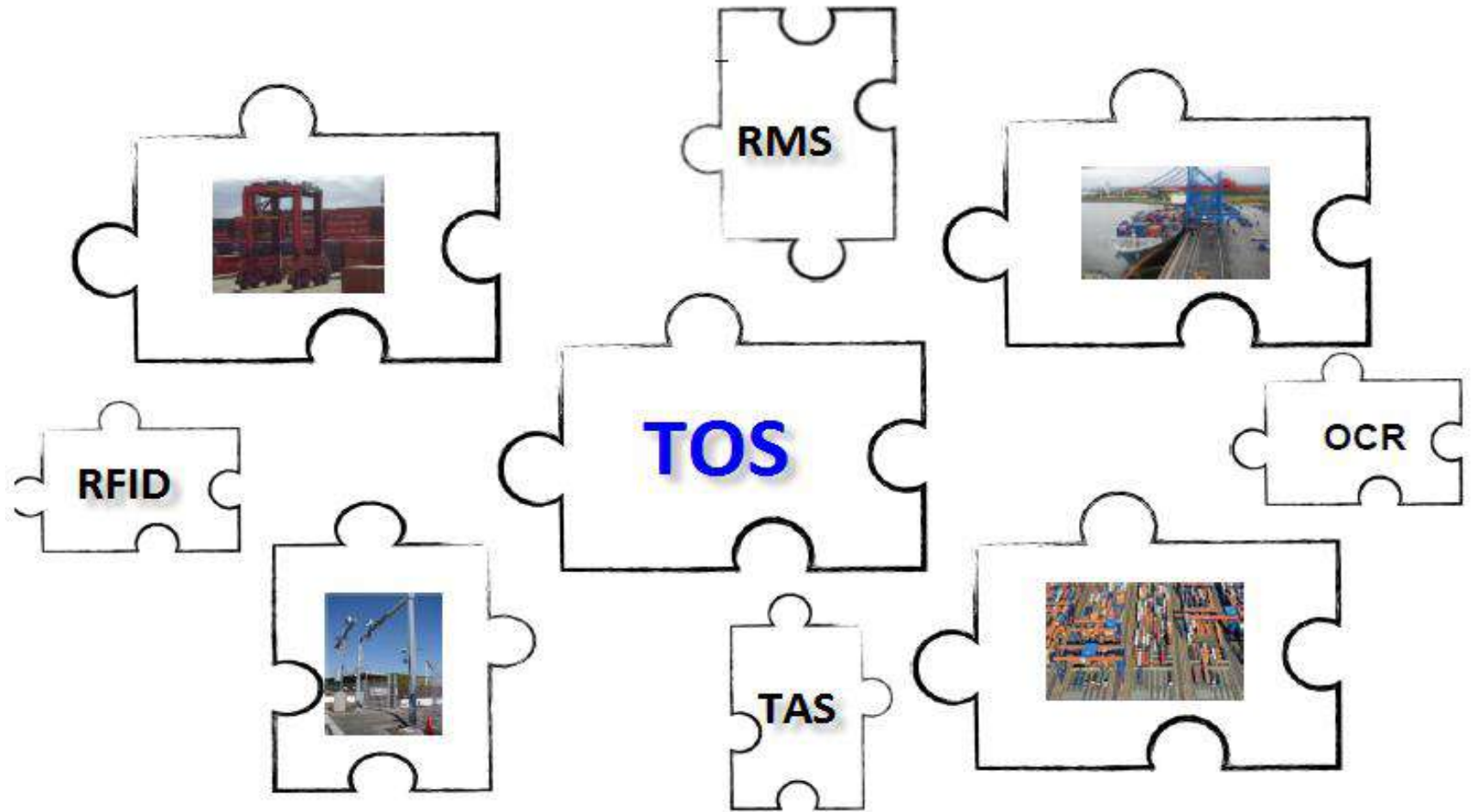


Different System Requirements

- Functional requirements
- Interface requirements
- Technical requirements
- Other non-functional requirements
- Close cooperation with all stakeholders



TOS an integration platform



RMS - Reefer Management System
OCR – Optical Character Reader
TAS – Truck Appointment System
RFID - Radio Frequency Identification

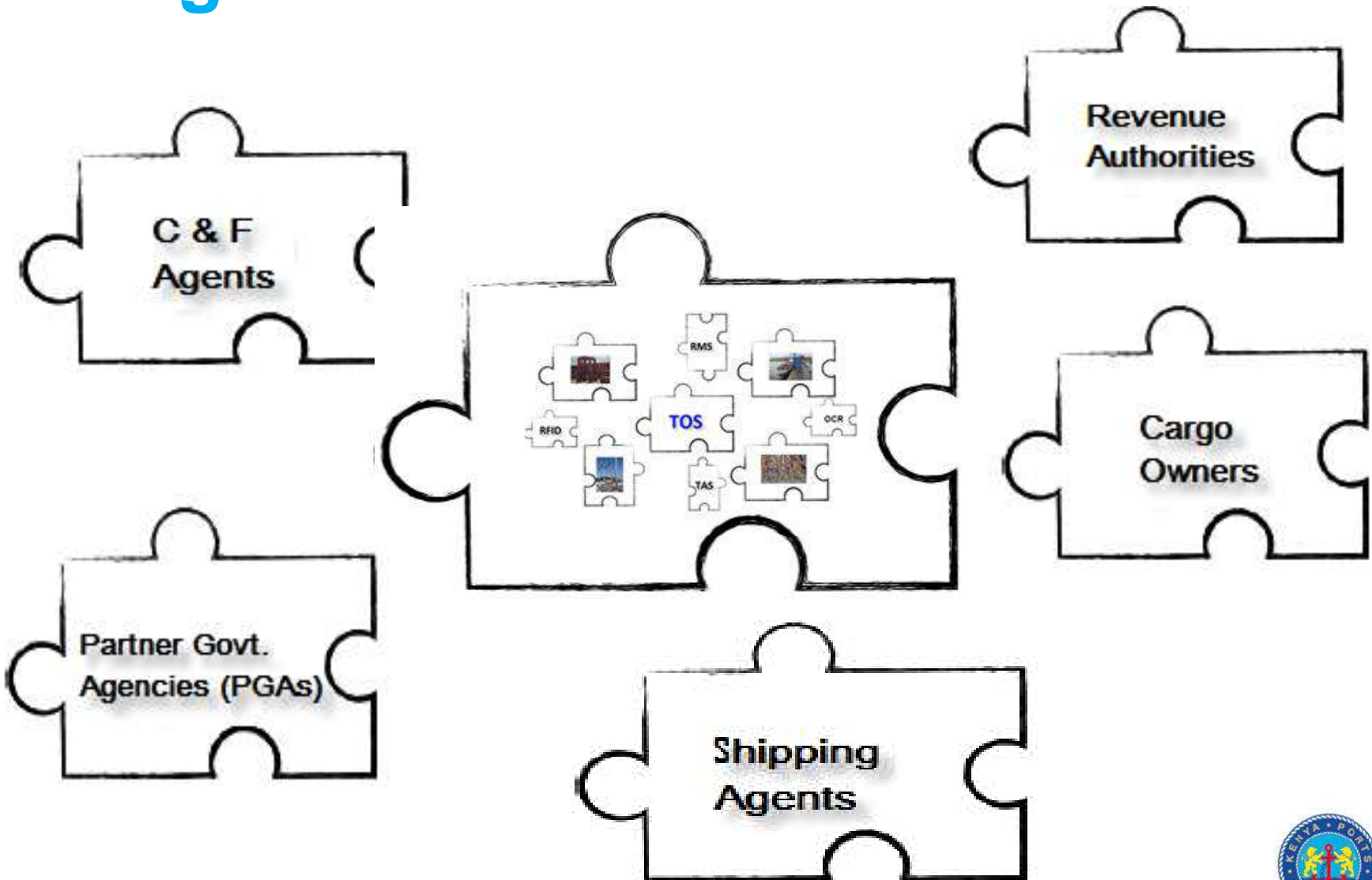


Highlights on Expected System Enhancements

| | PROPOSED SYSTEM ENHANCEMENT | TARGETED PROCESSES | BENEFITS OF THE SYSTEM |
|---|--|--|---|
| 1 | Optical Character Reader | <ul style="list-style-type: none"> Gate in and out Train in and out Ship discharging and loading | <ul style="list-style-type: none"> • Removal of human intervention at the gate • Capture real time container details • Accurate data capture • Captures real-time container condition • Capture real time container and train details • Real time capture of container details and damage condition • Important when it comes to import and export claims issues |
| 2 | Positioning system | <ul style="list-style-type: none"> • Container Stack in • Container Stack out • House keeping | <ul style="list-style-type: none"> • Guarantees 99.9% container inventory accuracy • Updates container status and position • Reduces gantry operator's input |
| 3 | Radio Frequency Identification (RFID) Technology | <ul style="list-style-type: none"> • Terminal Tractors • External Trucks | <ul style="list-style-type: none"> • Internal TTs - for tracking and performance monitoring purpose • External TTs - for tracking, monitoring and job queuing |
| 4 | Barcode Technology | <ul style="list-style-type: none"> • Motor Vehicle operations • General cargo operations • Warehousing operations (ICD) | <ul style="list-style-type: none"> • For efficient and real time gate/yard process. • For efficient and real time stevedoring process. • Safe guard cross deliveries and potential revenue losses • For accurate and real time monitoring |



TOS an integration platform, Cargo interveners on PCBS



Hierarchy

KPA BOARD OF DIRECTORS

TOS STEERING COMMITTEE

TOS PROJECT
IMPLEMENTATION TEAM

STAKEHOLDERS



Stakeholder involvement

- Has been planned for phase II during the training, change management initiatives and user support plans
- Important consideration is that international best practice will be adopted. Some customizations will be dropped in the new TOS
- Stakeholders will be sensitized of the changes after to-be processes have been finalized and before the tendering process commences.



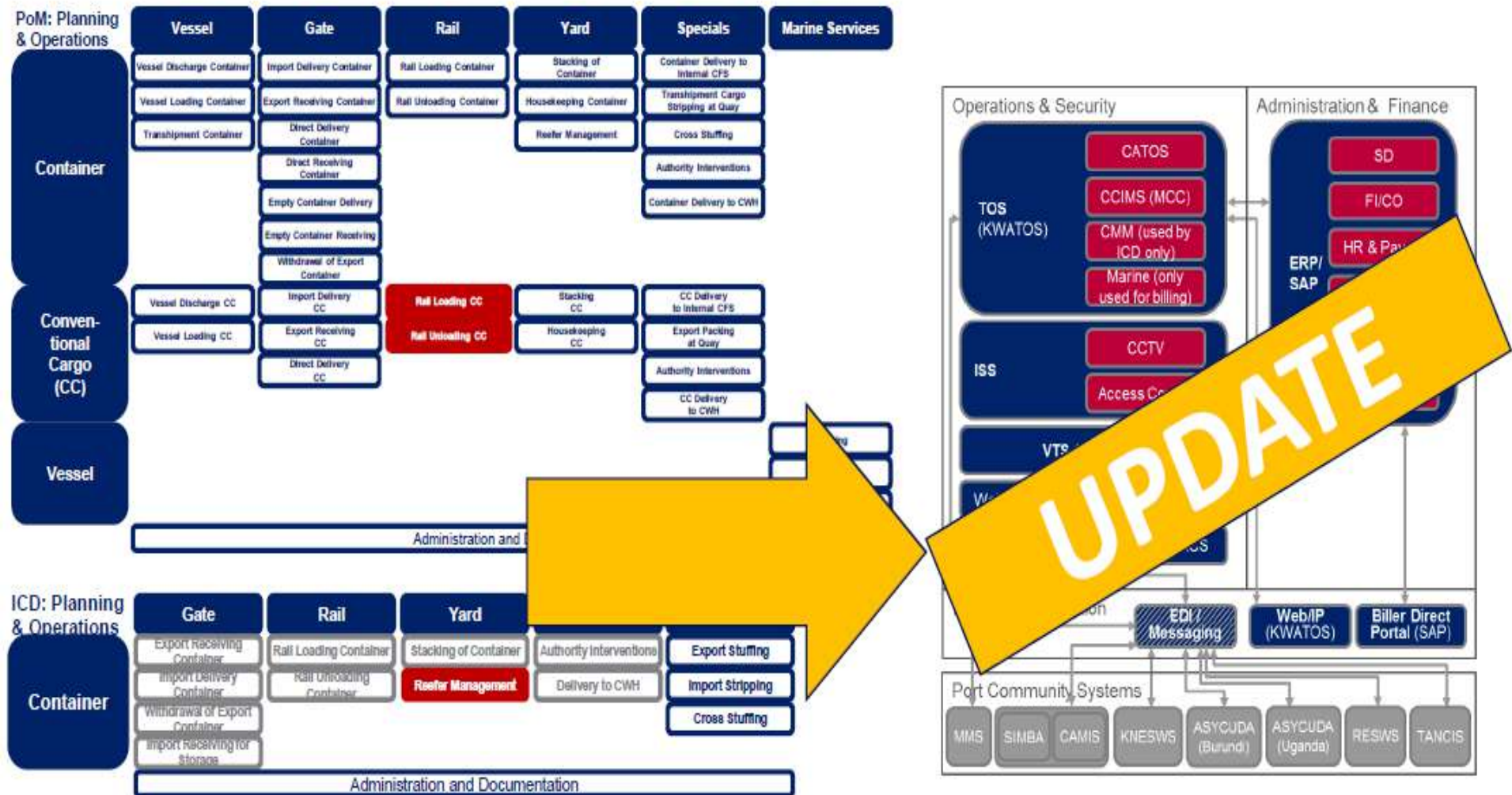
Timelines of Project

- Project Start – June 2017
- End of Phase I – April 2018
- End of Phase II – June 2018
- End of Phase III (End of Project) – July 2018



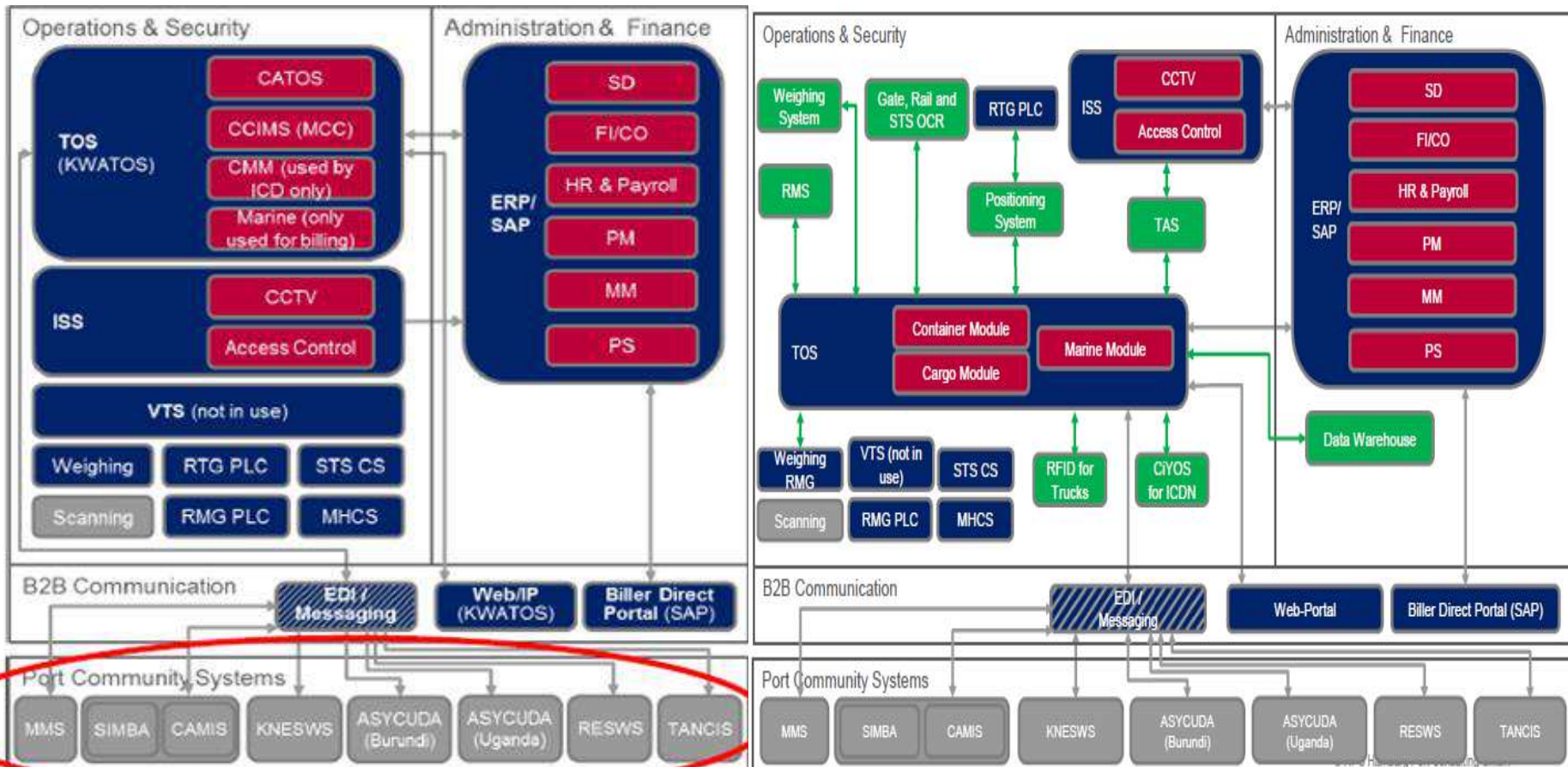
Future expectations

- Decisions on TO-BE processes will affect the future System Landscape



Future expectations

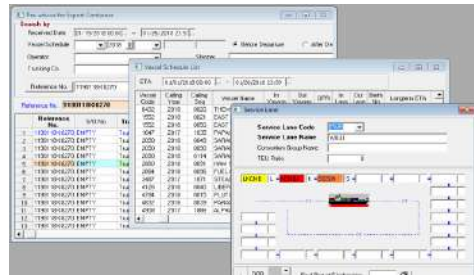
- Decisions on Proposed System Enhancements may affect:-
 - Change in Systems Landscape



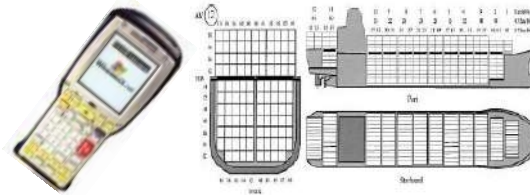
Future Expectations - digitalizing



KWATOS... 2008



FUTURE



TOS review challenges

- **Numerous interfaces with OGA systems**
 - Interfaces slows down the TOS
 - Compromises on TOS up-time.
 - Delays the core processes
- **Partners not fully compliant with interface requirements**
 - Shipping lines with the CLLs



THANK YOU

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