Enhancing logistics capabilities based on existing portfolio

Supporting day-to-day business and all types of operations across the enablement spectrum

Jacek Pachocki, NCIA, ACQ CE&A
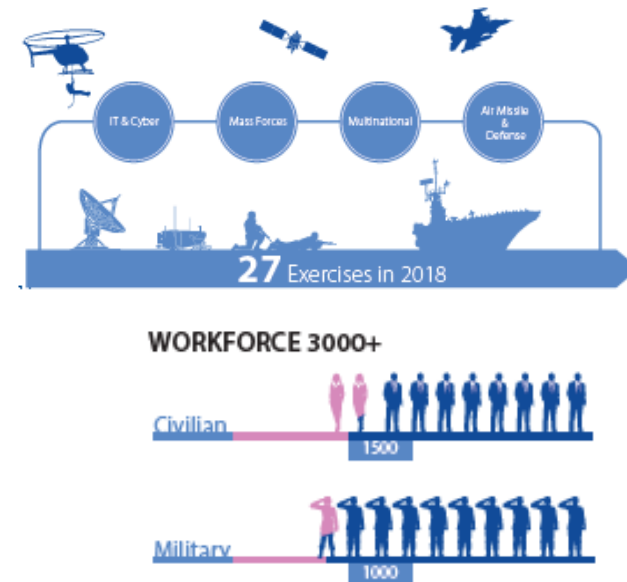
Haarlem, NL 2019/10/07-09

IWSM MENSURA

**HAARLEM 7-9 OCTOBER 2019**

NCI Agency

Connects NATO, Nations & Forces

- We are NATO's technology and cyber leaders.

- We help NATO Nations communicate and work together in smarter ways.

- Our solutions underpin NATO's ability to perform Article IV (consultation) and Article V (command and control).

The Netherlands – leader in flowers and plants

- Area of greenhouses ~10.000 ha

- Area of the municipality of Haarlem ~3.200 ha

- Total worth of flower export ~ EUR 6 bln

- 2.1% of total national export, EU-15 0.1%

- Number of exporting companies ~ 700

V.1.0

2019/10/07-09   NCI Agency
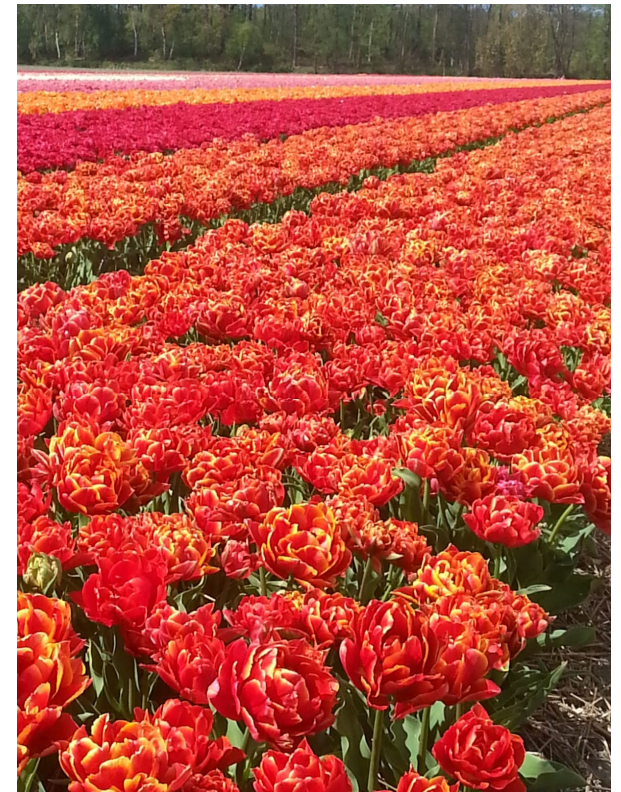
Keeping the business running

- Key enabling processes

  - Business (operational) processes

  - Organizations

  - Technologies

  - Information

V.1.0

Putting it together => Flora Functional Services (Flora FS)

Logistics Applications

Logistics Coordination

Supply & Services

Movement & Transportation

Infrastructure Engineering Support

Disease Control Applications

Disease Control Planning

Disease Control Management

Plants and Flowers Health Surveillance

Budget & Finance Applications

Financial Management

V.1.0

NCI Agency
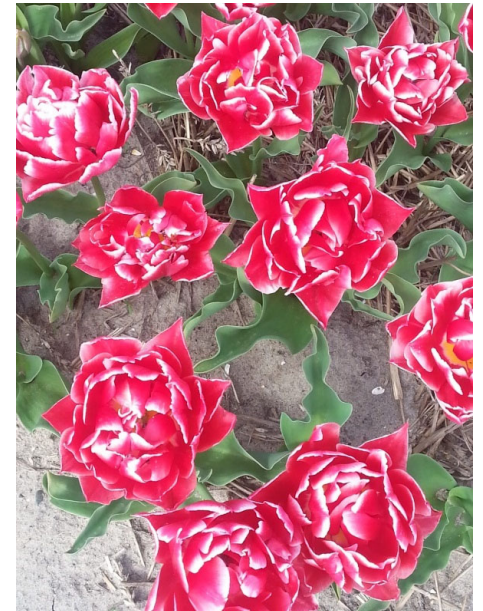
Logistic Applications

Objective:

"To provide the **flower industry** with the greatest logistics flexibility for the conduct of its operations"

- Optimum use of existing assets and capabilities;
- Additional functionality for the requirements that are not currently supported;
- Logistics situational awareness;
- New technologies;
- Prevention of degradation.

Disease Control Applications

- More efficient use of research and treatment facilities;

- More efficient allocation of resources;

- Improved efficiency of logistics support through collective provision;

- Improved decisions taken by the Disease Control Authority;
  - Based on multi-source information;
  - Disease Reporting containing timely and aggregated information.

Budget & Finance Applications

- Flexible reports and charts;

- Means of internal control and governance;

- Streamlined financial statements;

- Improved suppliers management;

- Improved management and tracking of projects and costs;

- Improved Budget Planning;

- Documents from mobile devices.

FLORA FS Programme

Legacy systems as potential re-use candidates
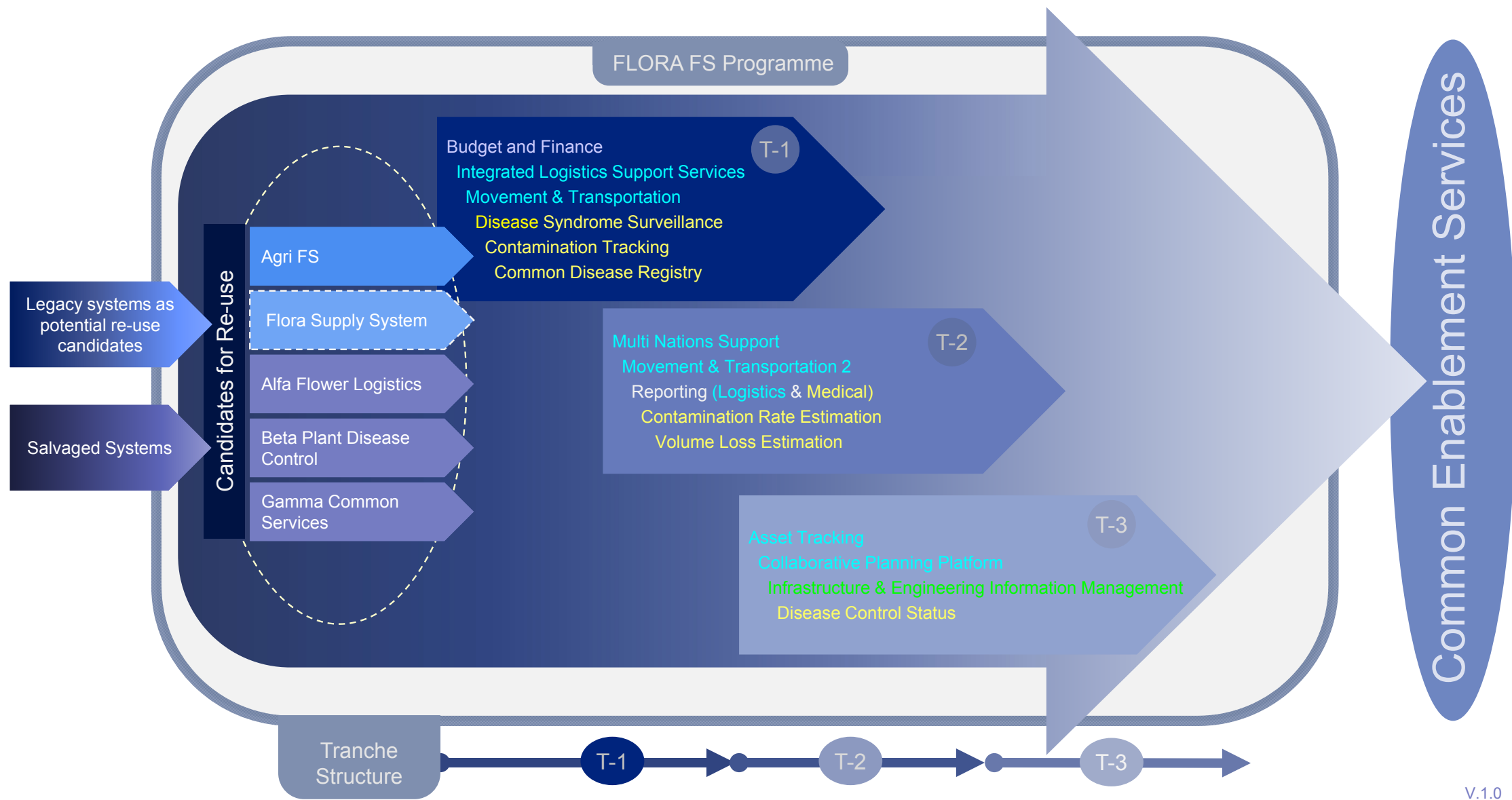
Salvaged Systems

Candidates for Re-use

Agri FS
Flora Supply System
Alfa Flower Logistics
Beta Plant Disease Control
Gamma Common Services

Budget and Finance
Integrated Logistics Support Services
Movement & Transportation
Disease Syndrome Surveillance
Contamination Tracking
Common Disease Registry

T-1

Multi Nations Support
Movement & Transportation 2
Reporting (Logistics & Medical)
Contamination Rate Estimation
Volume Loss Estimation

T-2

Asset Tracking
Collaborative Planning Platform
Infrastructure & Engineering Information Management
Disease Control Status

T-3

Common Enablement Services

Tranche Structure

T-1 → T-2 → T-3

V.1.0

2019/10/07-09   NCI Agency

FLORA FS Programme

Candidates for Re-use

Legacy systems as potential re-use candidates

Agri FS

Flora Supply System

FLORA FS Programme

Candidates for Re-use

Agri FS

Flora Supply System

Alfa Flower Logistics

Beta Plant Disease Control

Gamma Common Services

Legacy systems as potential re-use candidates

Salvaged Systems

FLORA FS Programme

Budget and Finance
Integrated Logistics Support Services
Movement & Transportation
Disease Syndrome Surveillance
Contamination Tracking
Common Disease Registry

T-1

Legacy systems as potential re-use candidates

Salvaged Systems

Candidates for Re-use

Agri FS

Flora Supply System
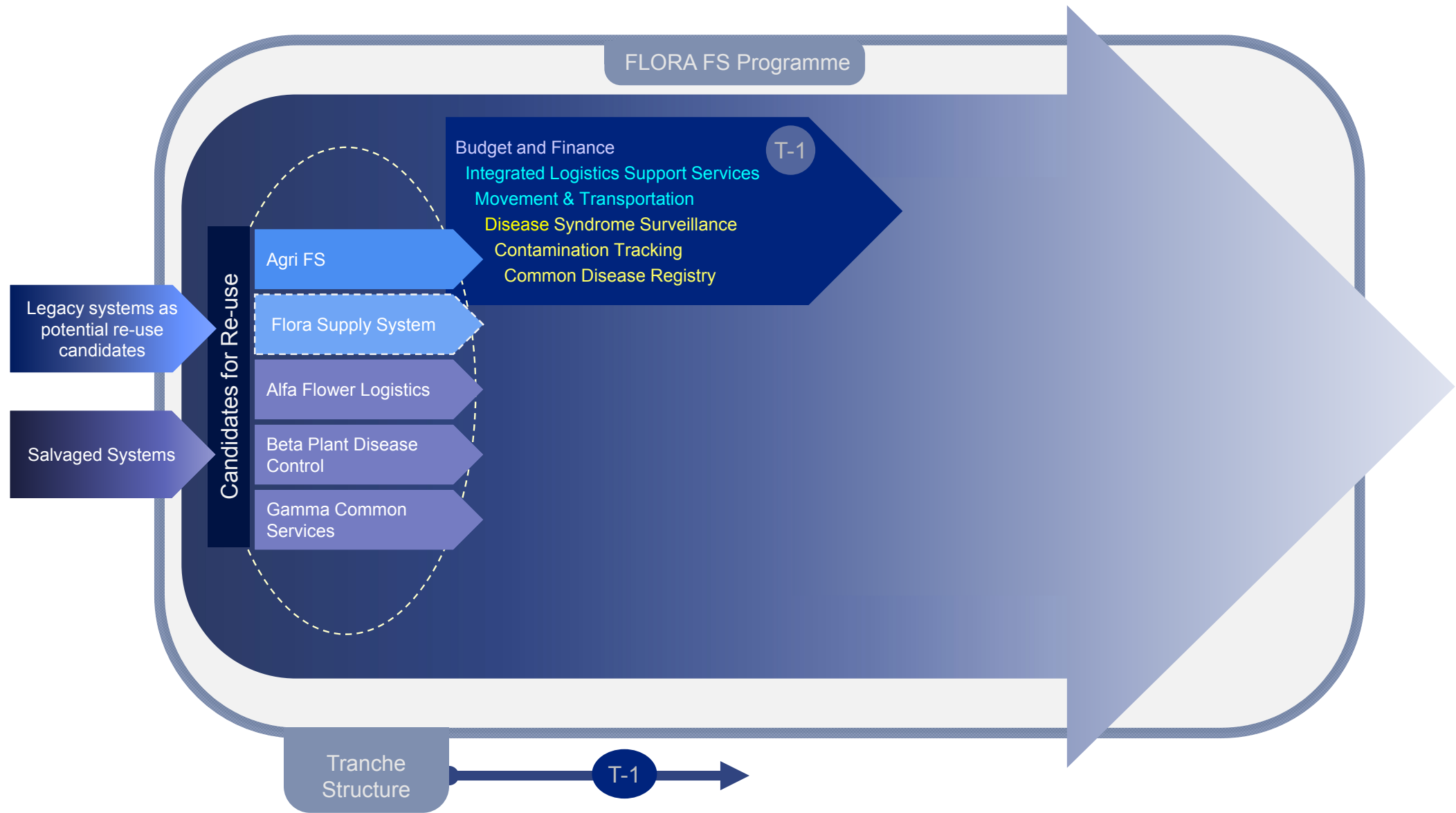
Alfa Flower Logistics

Beta Plant Disease Control

Gamma Common Services

Tranche Structure

T-1

V.1.0

FLORA FS Programme

Budget and Finance
Integrated Logistics Support Services
Movement & Transportation
Disease Syndrome Surveillance
Contamination Tracking
Common Disease Registry

T-1

Multi Nations Support
Movement & Transportation 2
Reporting (Logistics & Medical)
Contamination Rate Estimation
Volume Loss Estimation

T-2

Asset Tracking
Collaborative Planning Platform
Infrastructure & Engineering Information Management
Disease Control Status

T-3

Legacy systems as potential re-use candidates

Salvaged Systems

Candidates for Re-use

Agri FS

Flora Supply System

Alfa Flower Logistics
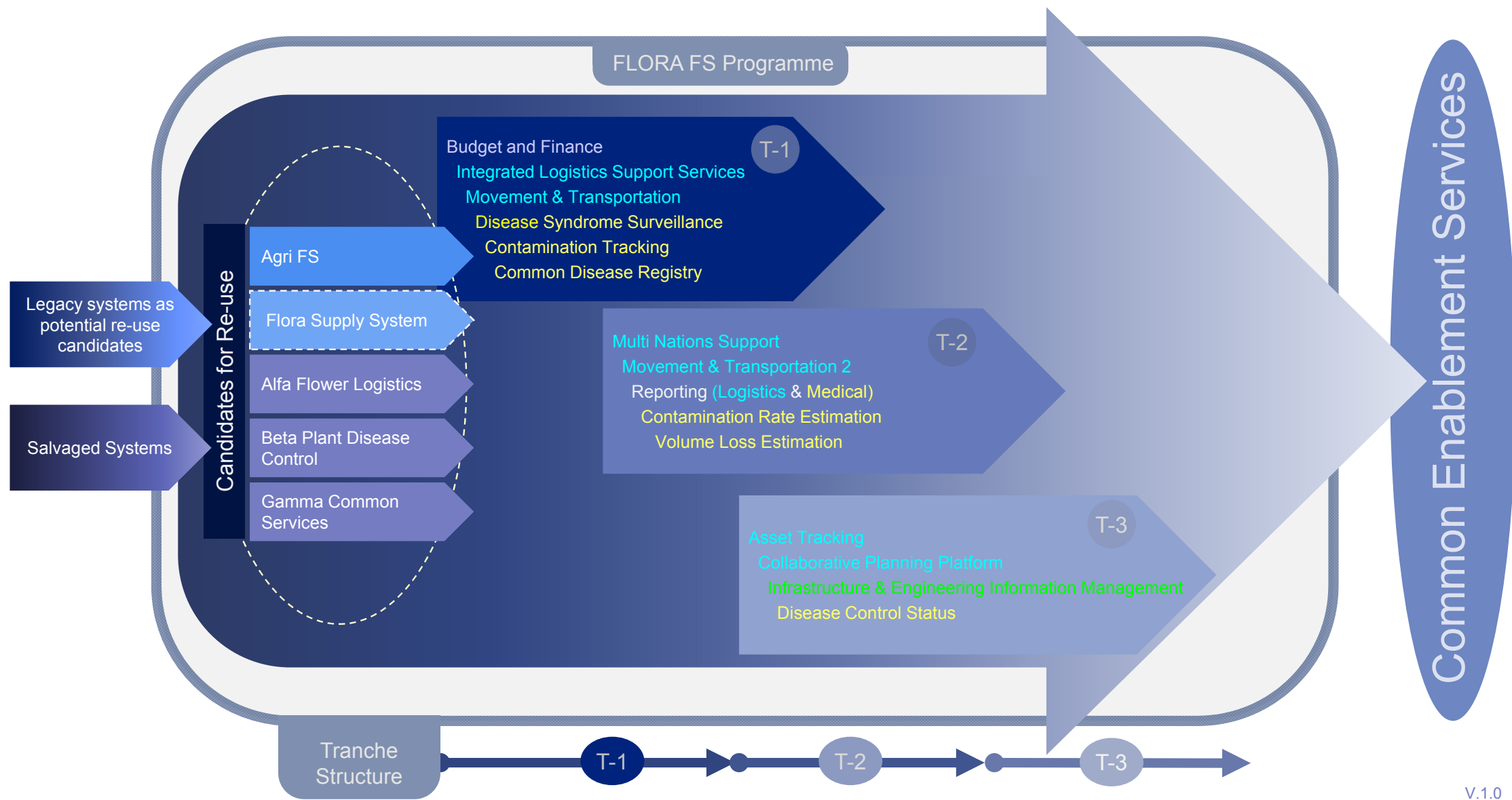
Beta Plant Disease Control

Gamma Common Services

Common Enablement Services

Tranche Structure

T-1 ● T-2 ● T-3

V.1.0

Sizing and Estimating the SIPs (Software Intensive Projects)

- ~ 2.500 requirements (Flora FS)

- ~ 450 requirements (Tranche 1)

- 9 applications

- 97-17 reqs/app

- Function Point Analysis (IFPUG)

SEER for SEM model

- Platform:
  - Business and Non-Critical Management Information System

- Application:
  - Decision Support System

- Acquisition methods:
  - General – new and pre-existing;
  - Modification, Major;
  - Salvage Code

- Development Method:
  - Agile

SEER for IT model

- Deployment:
  - Production Environment;
  - Test Beds
- Data Migration;
  - Uninterrupted service
- Training:
  - Lot of users;
  - Class and eLearning;
- Documentation:
  - Introduction Guide, User Guide, Quick Reference, Troubleshooting Manual, Comprehensive Help

Generating Type B Cost Estimate

- Project Cost Summary;
- Expenditure Profile;
- O&M;
- LCC

Project Life Cycle Cost Estimate
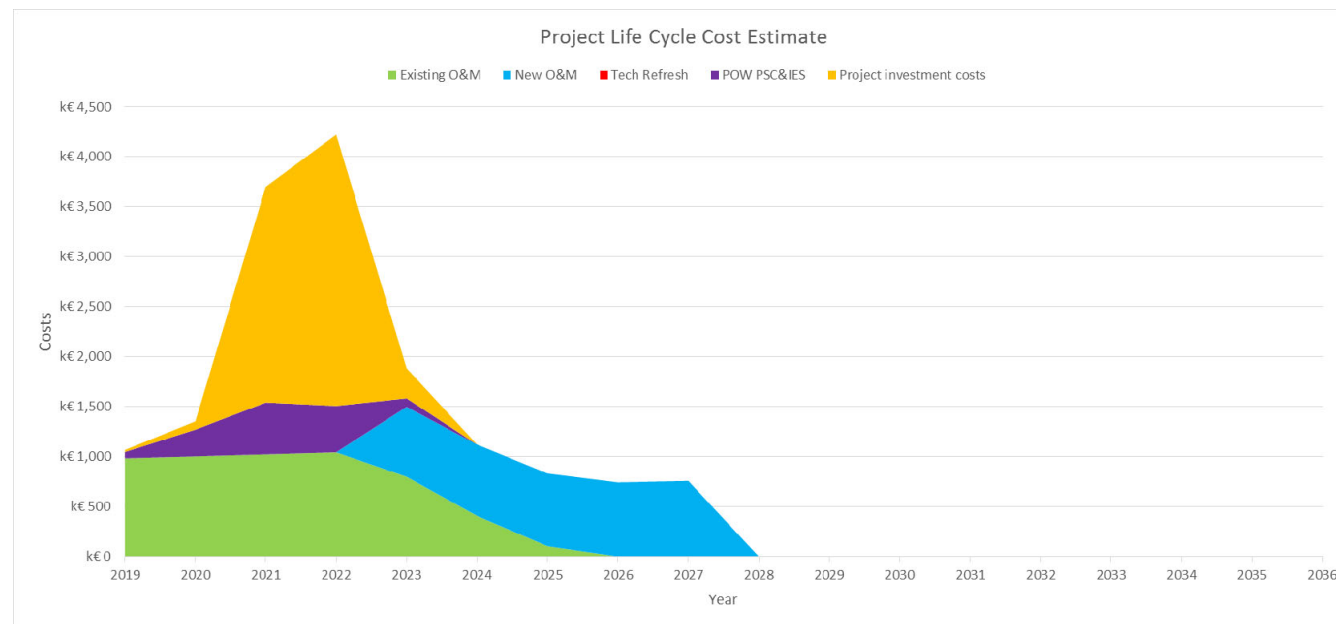
Question Time

Your Questions, Please.

Please keep yourself up-to-date, visit:

www.ncia.nato.int