

Stimulating Investments in Financing the Development of Aviation Infrastructure

Mikael Maanstroem, LFV
GATM 2018-11-22



Examples of methods & tools

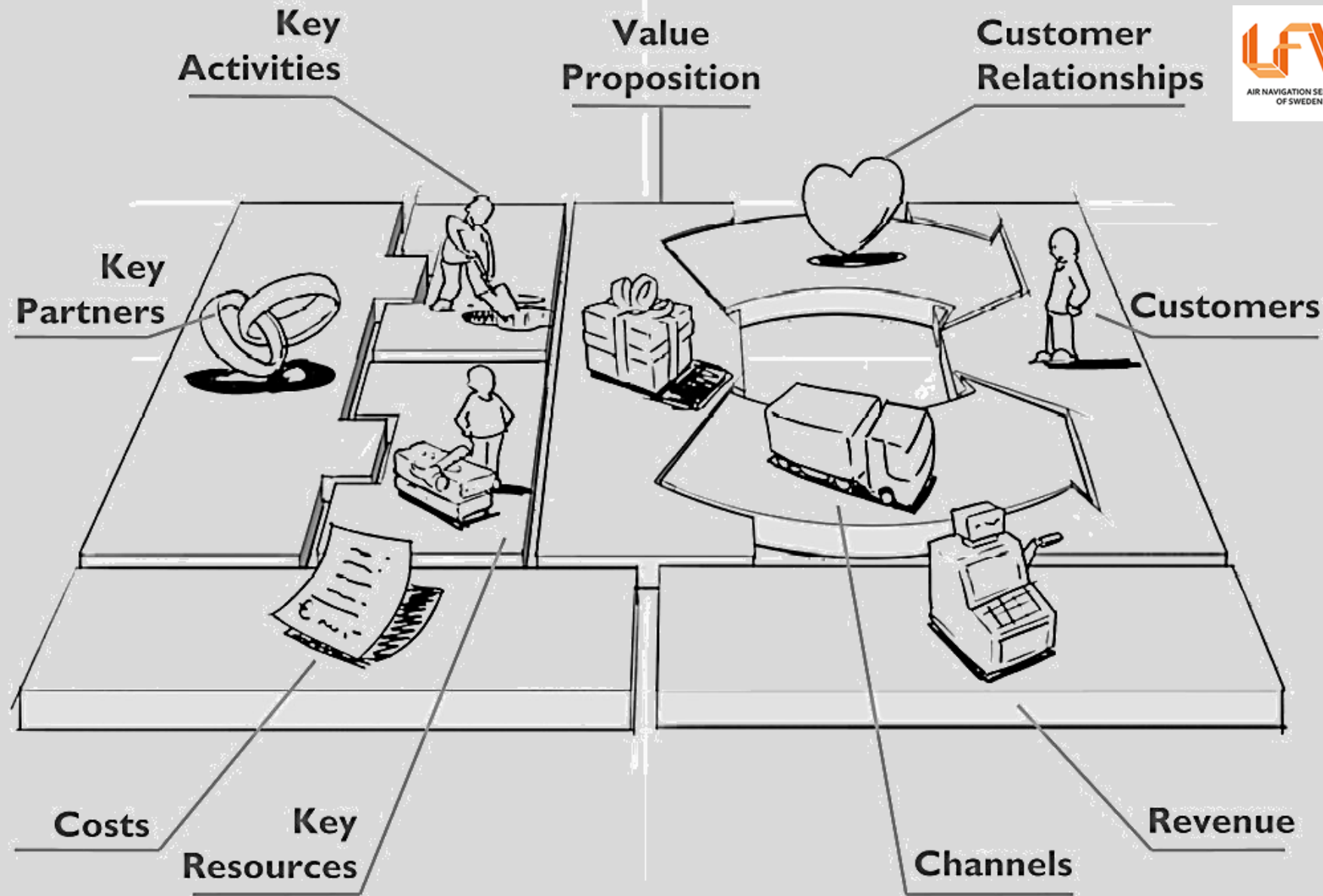


- Intentions / Words → actions & results
- Priorities



- Example: Regional airport A-CDM

Defining business model & value

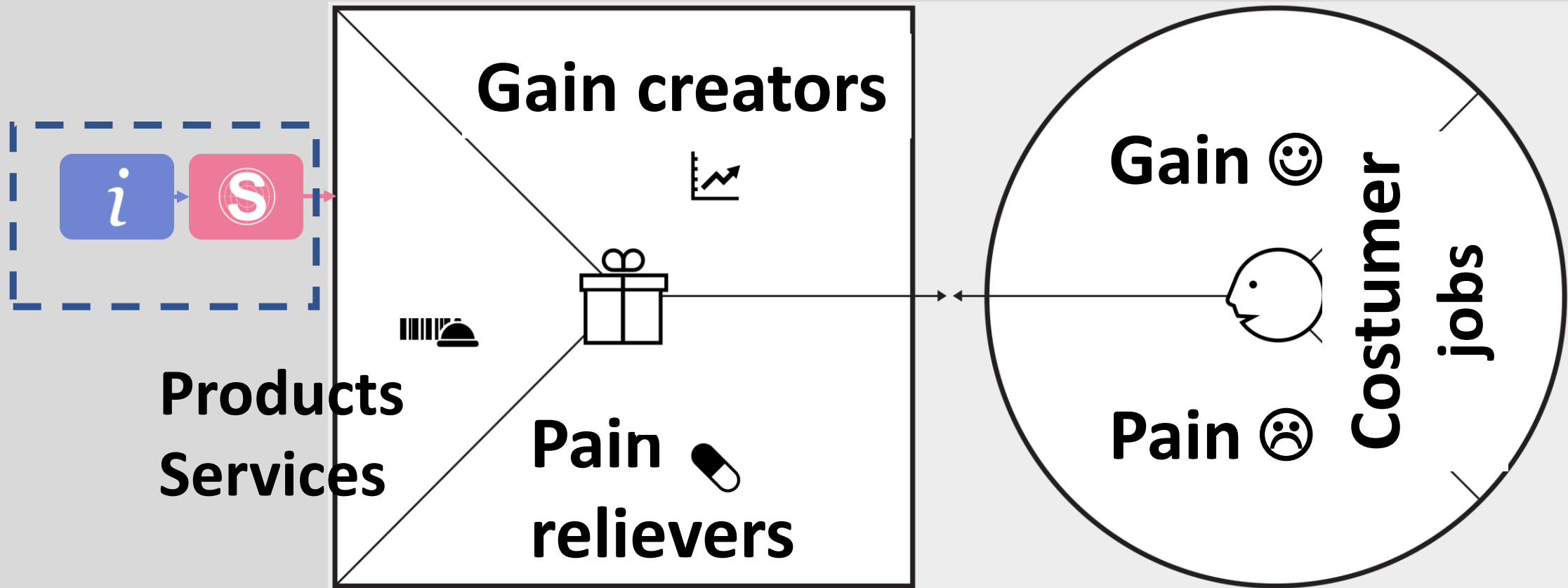


Value Proposition

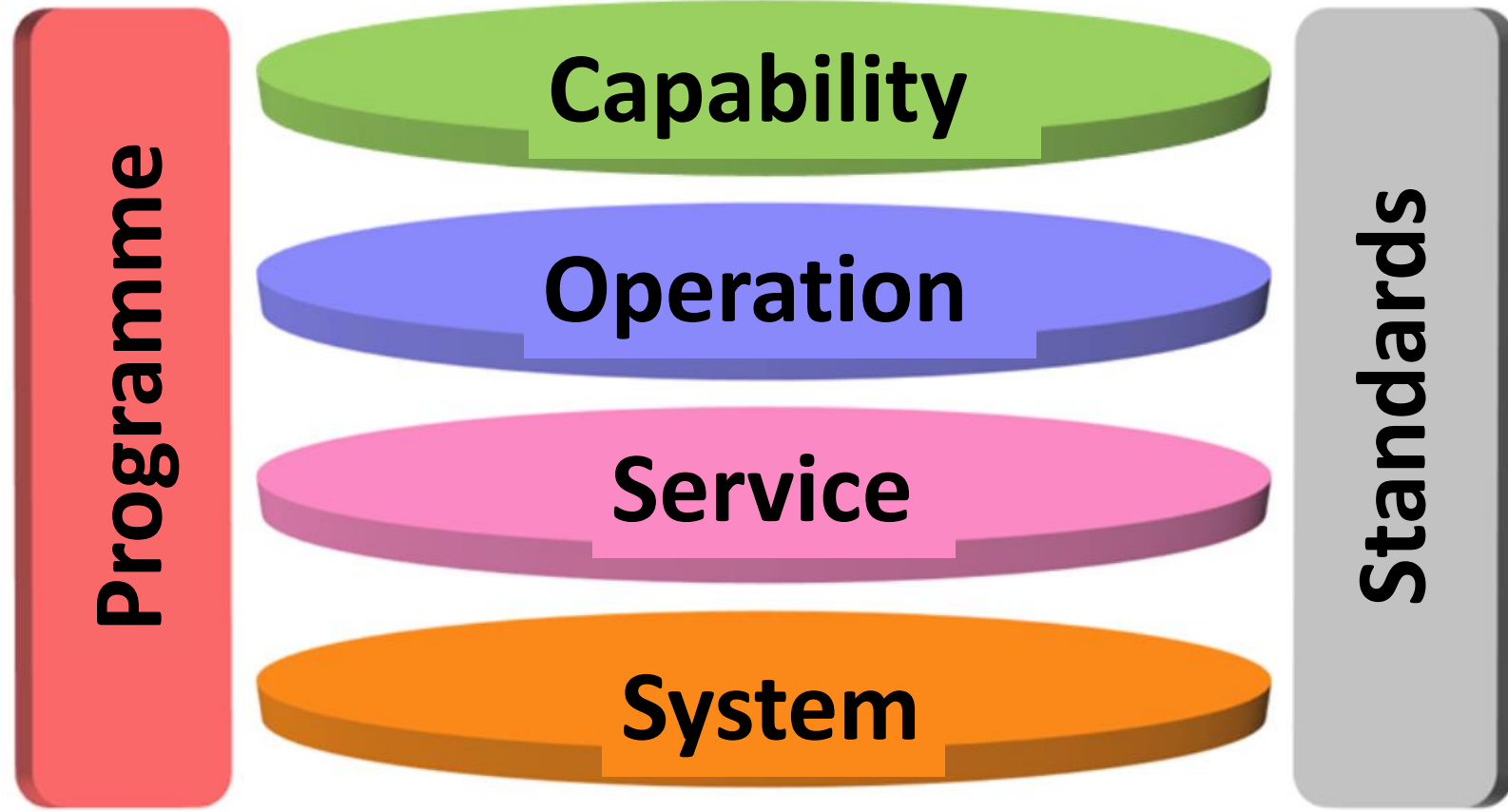
% Stakeholder adoption
% Operational requirements coverage



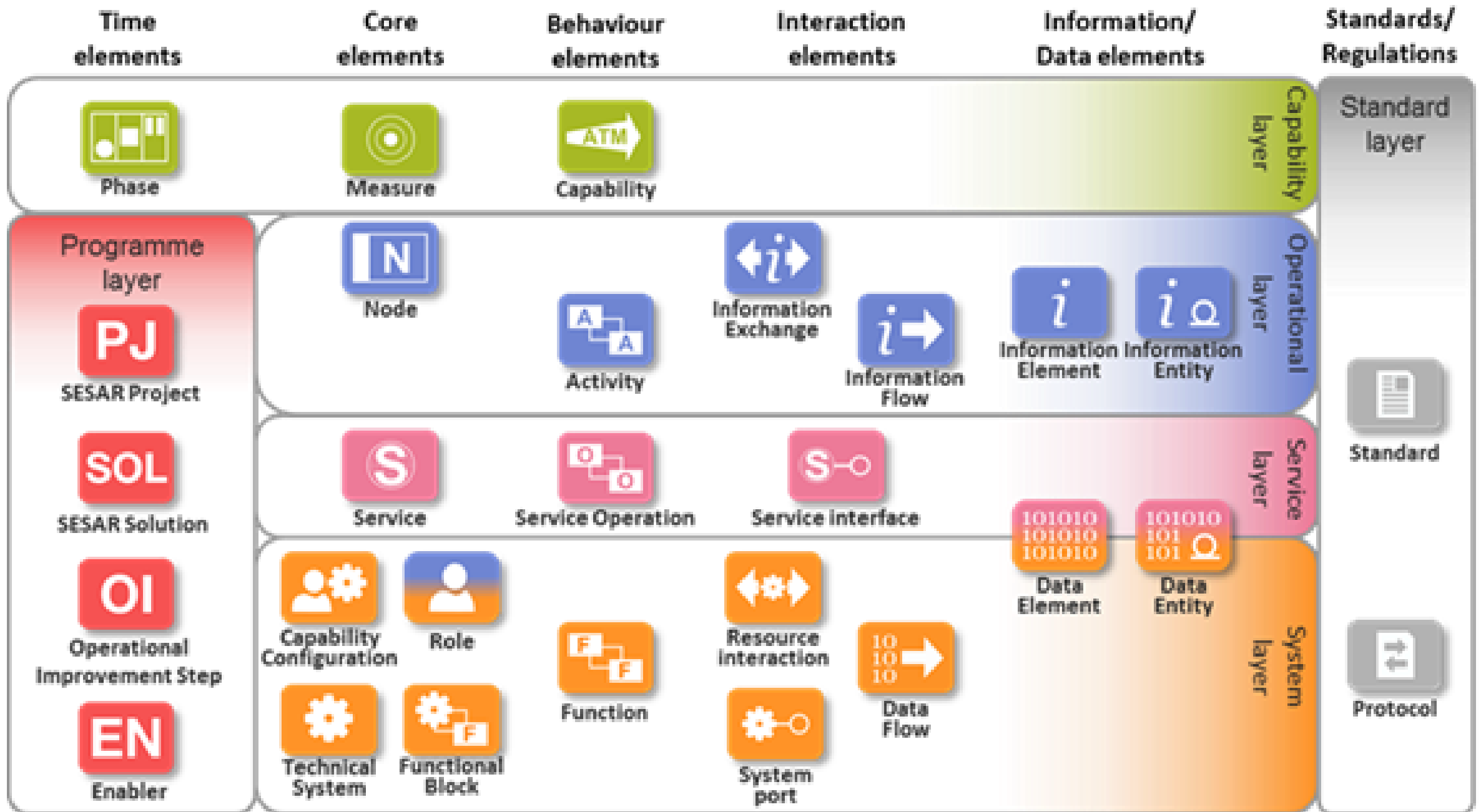
Measure



Enterprise Architecture



<https://www.atmmasterplan.eu/>



Project: mBooker

User Name: joaka

Date: Oct 10, 2000

Search

View/Edit

Review

Prioritize

Visualize

Requirements

Criteria

Query

Messages

Administrate

My Profile



Prioritize

The system shall allow for cancellation of previous reservations.

Optimized pairwise
comparison

Passenger throughput

RW length

CAT 3

<<

<

X

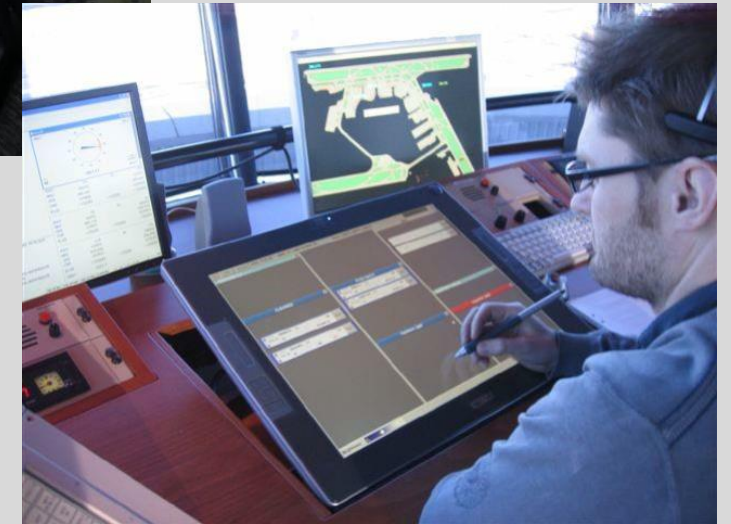
>

>>

Prioritize



ACDM-lite example ESUT-ESSA



A-CDM ESUT-ESSA actors

- o **AFIS Operator**
- o **Airport Operator, Ground Handler, Security**
- o **Aircraft Operator, Flight Crew**
- o **Air Traffic Control, Stockholm**
- o **ATC Tower Controller**
- o **ACC En-route Controller**
- o **Eurocontrol, Network Manager**
- o **Landside (Taxi, Buses, Hotel etc.)**



A-CDM Gains

- Improve predictability, on-time performance
- Reduce ground movement costs
- Enhance use of ground handling resources
- Enhance use of stands, gates and terminals
- Optimize use of AP infrastructure/reduce congestion
- Flexible pre-departure planning
- Reduce apron and taxiway congestion



ACDM-lite
ESUT-ESSA

SRA

IE #	Primary assets	C	I	A
1	PA#1 Scheduled Flight Trajectory / NM Flight Data Service	4	3	2
2	PA#2 Target Off Block Time TOBT / Airport Flight Information Publication Service	3	2	2
3	PA#3 Target Start-Up Approval Time TSAT / Airport Flight Information Publication Service	3	2	2
3	PA#4 Target Take Off Time TTOT / Airport Flight Information Publication Service	3	2	2
4	PA#5 Actual Take Off Time ATOT / Airport Flight Information Publication Service	3	3	3
5	PA#6 Flight Update Message / NM Flight Data Service	3	3	2
6	PA#7 Radar Plot (Position, Altitude, Speed, Heading)	3	3	3
7	PA#8 Estimated Landing Time ELDT / Airport Flight Information Publication Arrival Service or Management Information Service	4	3	2
8	PA#9 Actual Landing Time ALDT / Airport Flight Information Publication Service	3	2	2



Impact scale: 1 No impact; 2 Minor; 3 Severe; 4 Critical; 5 Catastrophic

Primary Asset ID & Impact analysis from Enterprise Architecture, summary

Summary



- Know the business model
- Focus stakeholder gains & pains
- Use EA models to align, coordinate & plan
- Prioritize
- Keep it simple
- Use supporting tools
- Do cybersecurity risk analysis & mitigation
- Useful even in small scale application
- Horizon 2020/EU projects ?