

Assembléon, iFlex project Integration, Test & Agile



Jan Wegter, Assembléon
Nov 2011

agenda

1. Assembléon B.V.
2. iFlex project
3. Integration plan
4. Scrum process
5. Lessons learned 1: multi discipline & scrum
6. Lessons learned 2: all-in-one
7. Lessons learned 3: ship-able product





Jan Wegter

- Opleiding: technische-informatica en -bedrijfskunde
- 1996 Interface tester, Hollandse Signaal Apparaten (Thales)
- 1999 Systeem tester, ASML
- 2001 Test architect, ASML
- 2007 systeem tester en competence manager Assembléon
- 2009 Integrator & test manager, iFlex project

BE SAFE

Assembléon

Set basis for factory efficiency

- Incoming reel registration
- Unique Reel-ID
- Compliance checking

Reduce NPI time

- Importers, optimizers, gerber &
- Virtual sticky tape tools

Reduce setup and changeover time

- Guided zero defect setups
- Support of (multi)grouping

Zero Defect Production

Faster ramp up and quality

- Central parts and program management and authorizing tool

Open Interface

- Connect to any MES/ERP



Increases line efficiency

- Parts consumption monitoring
- Parts replenishment monitoring
- MSD monitoring

Increases machine performance

- Analyze performance related data
- Parts consumption & Inventory control

Open Interface

- Connect to any ERP

Reduce costs of ownership

- Part level feeder services
- Monitor Feeder Maintenance schedule

Reduce costs of recall

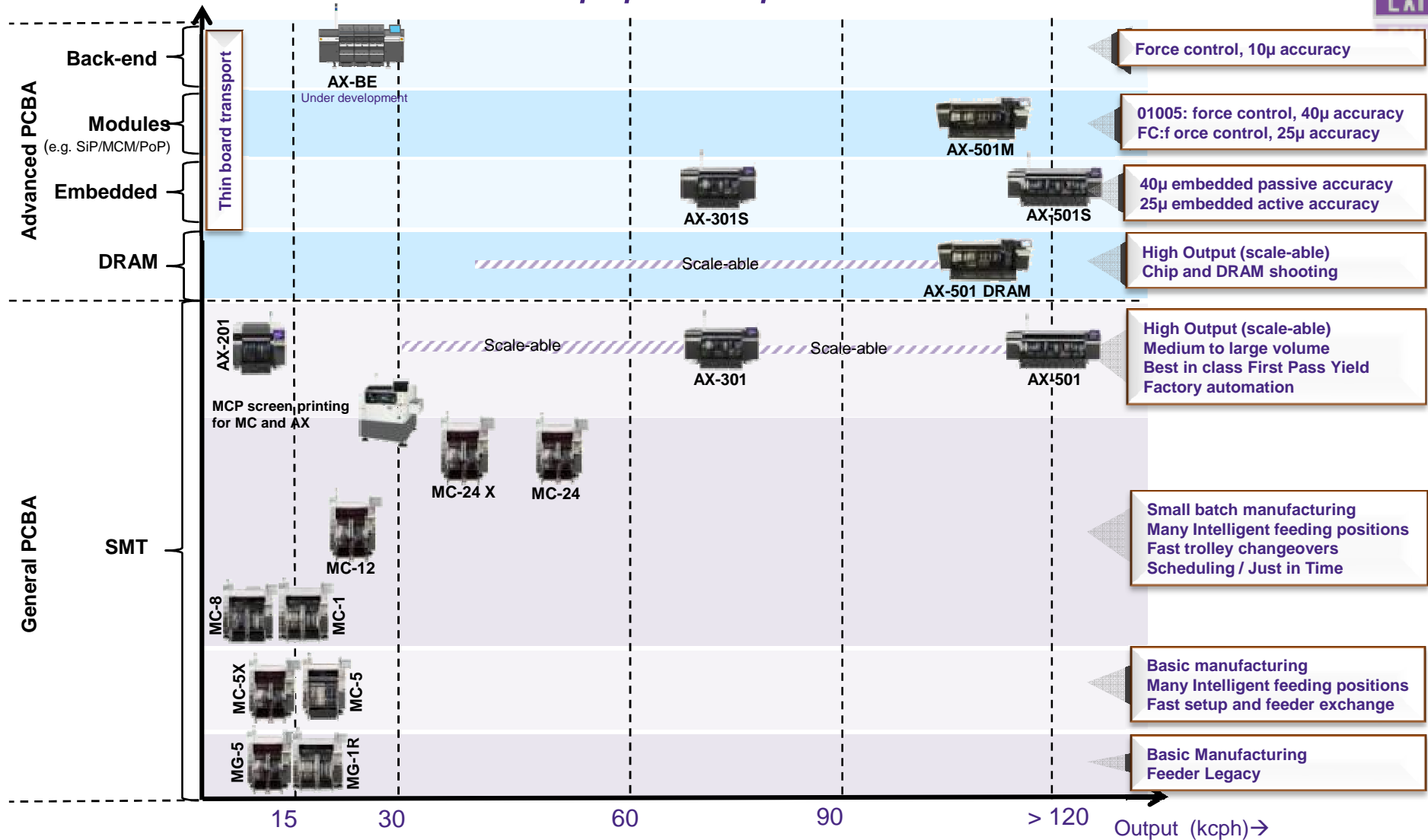
- Traceability Data + Reporting

Our products and services

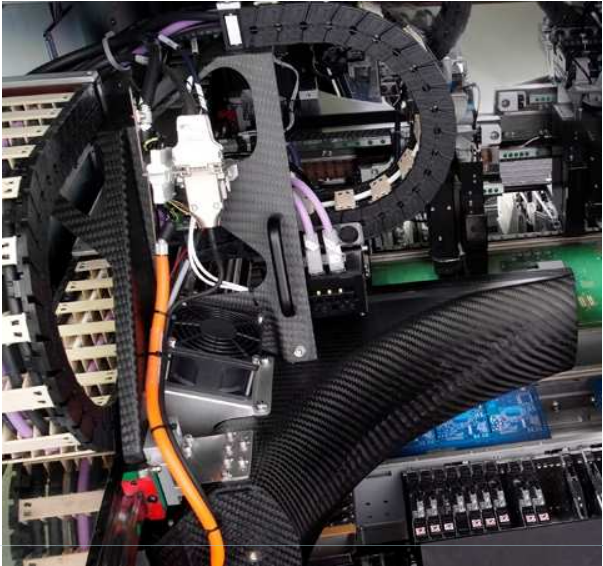
Equipment portfolio

Assembleon

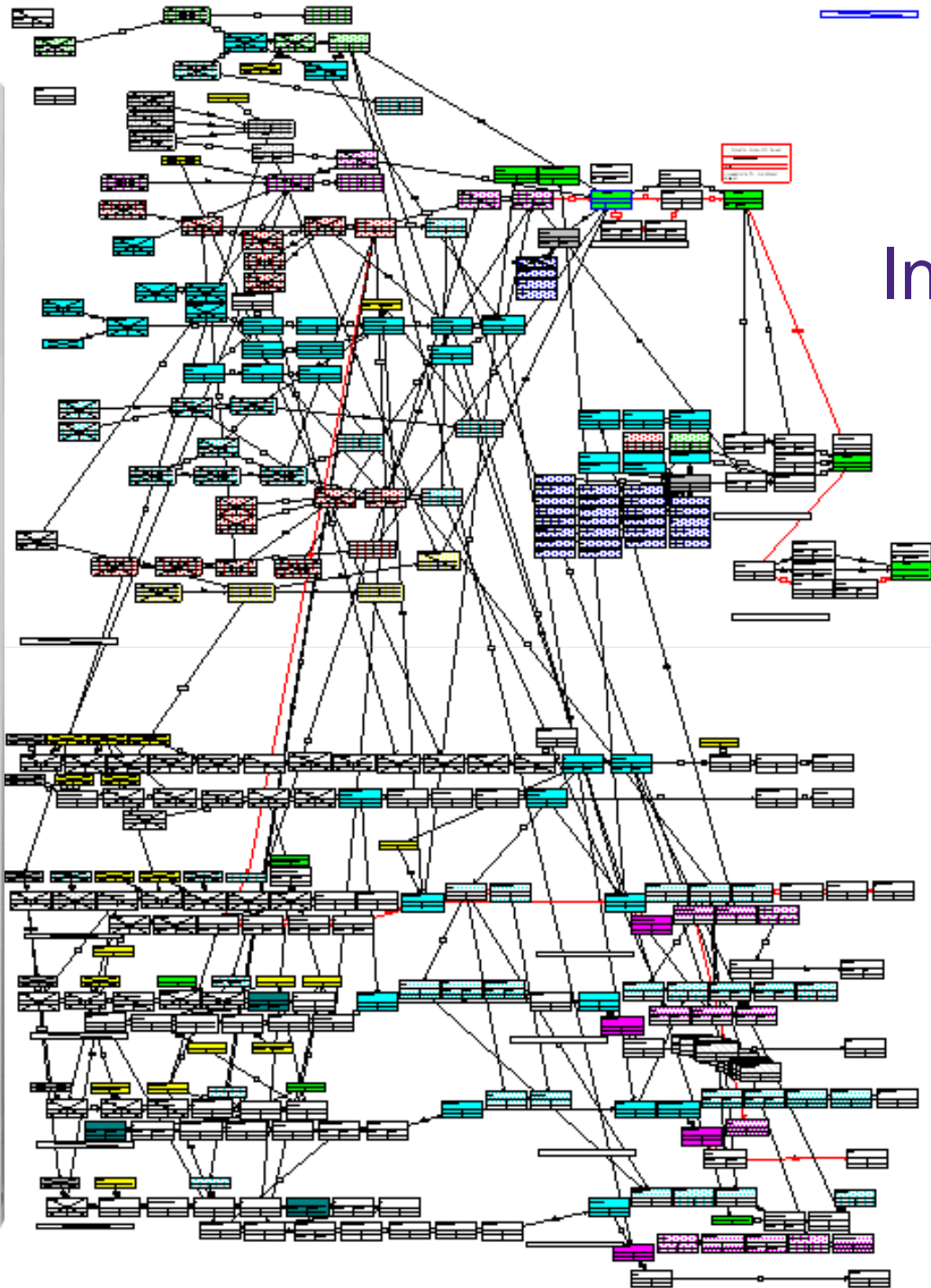
EXIT



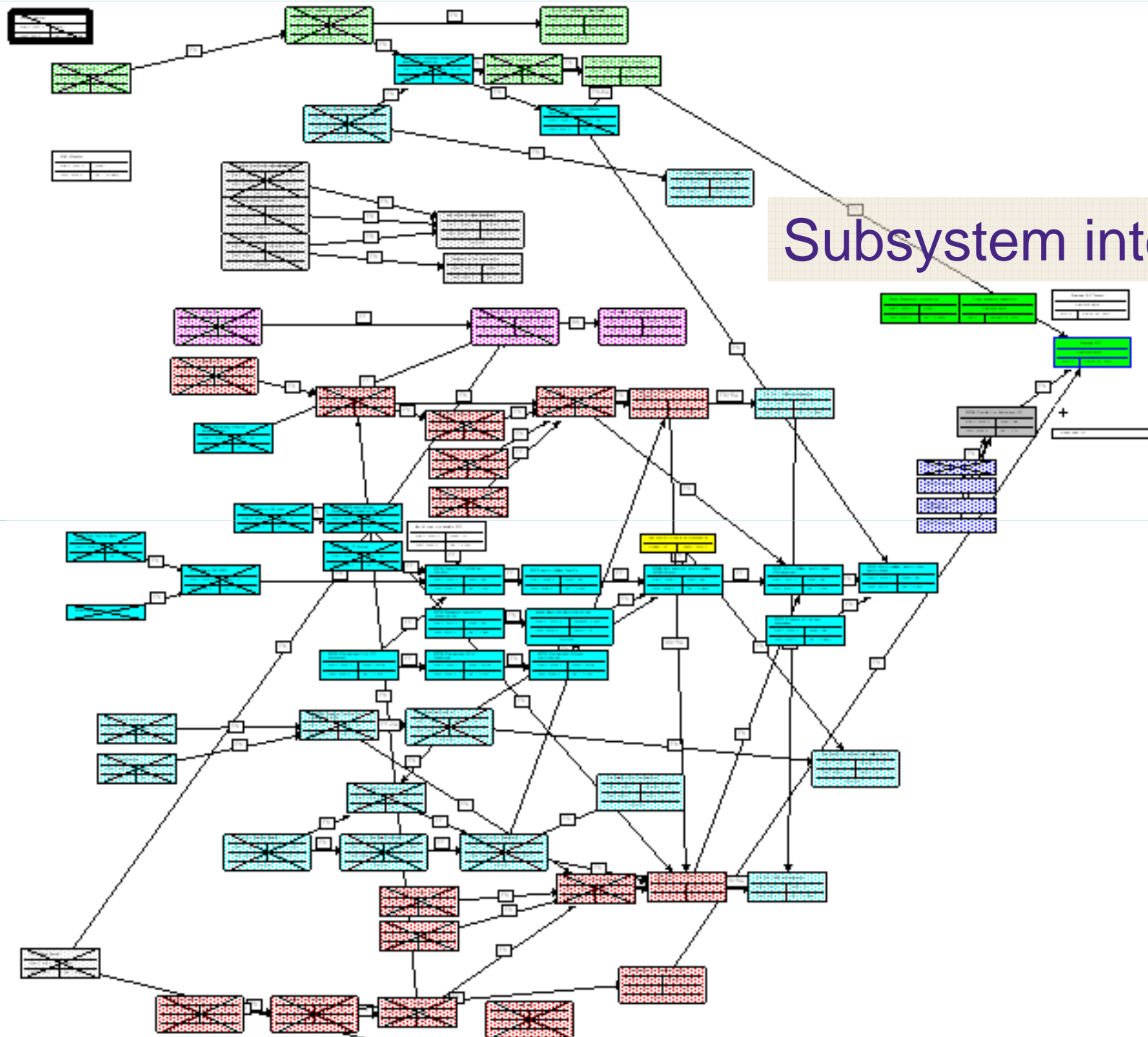
iFlex project

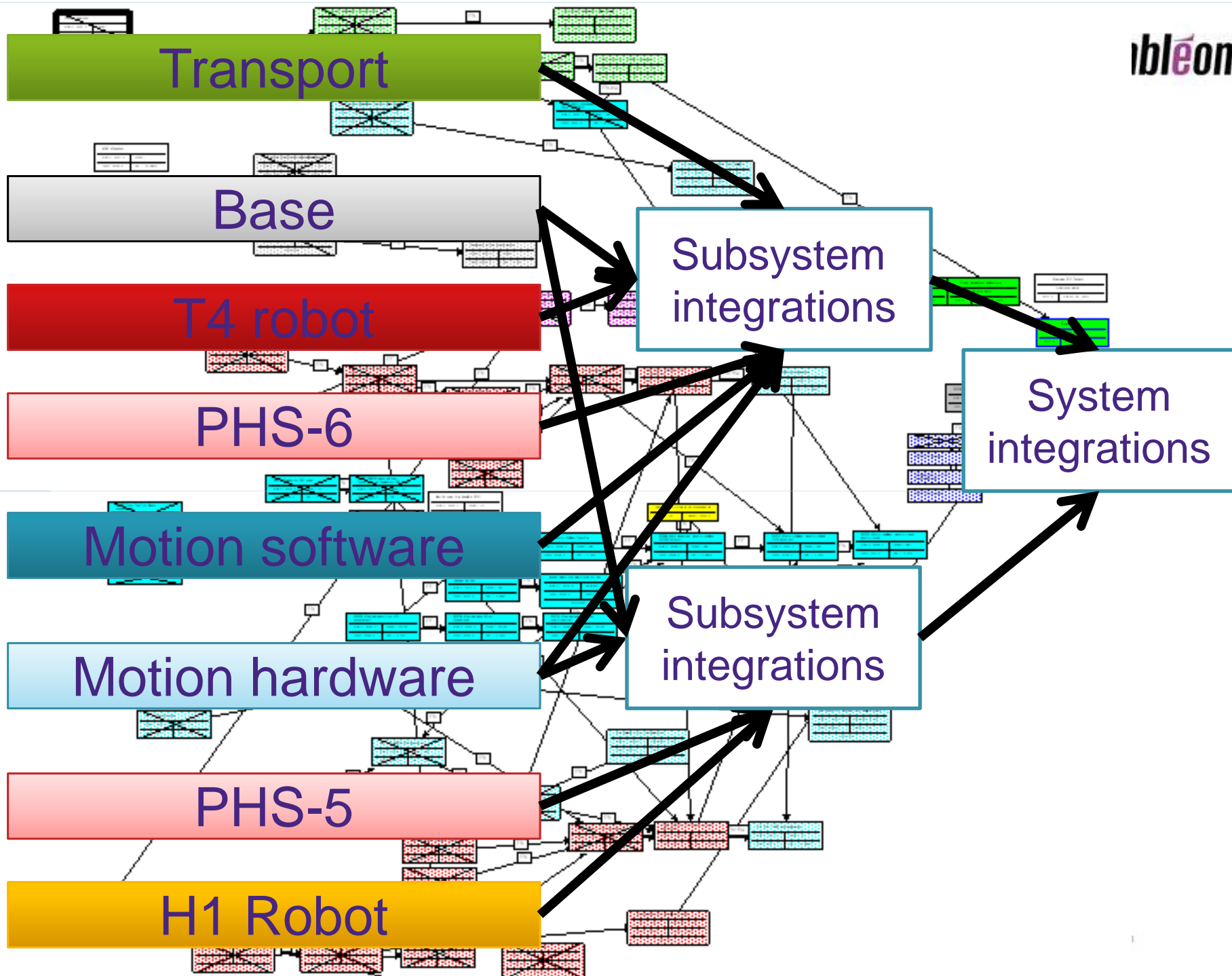


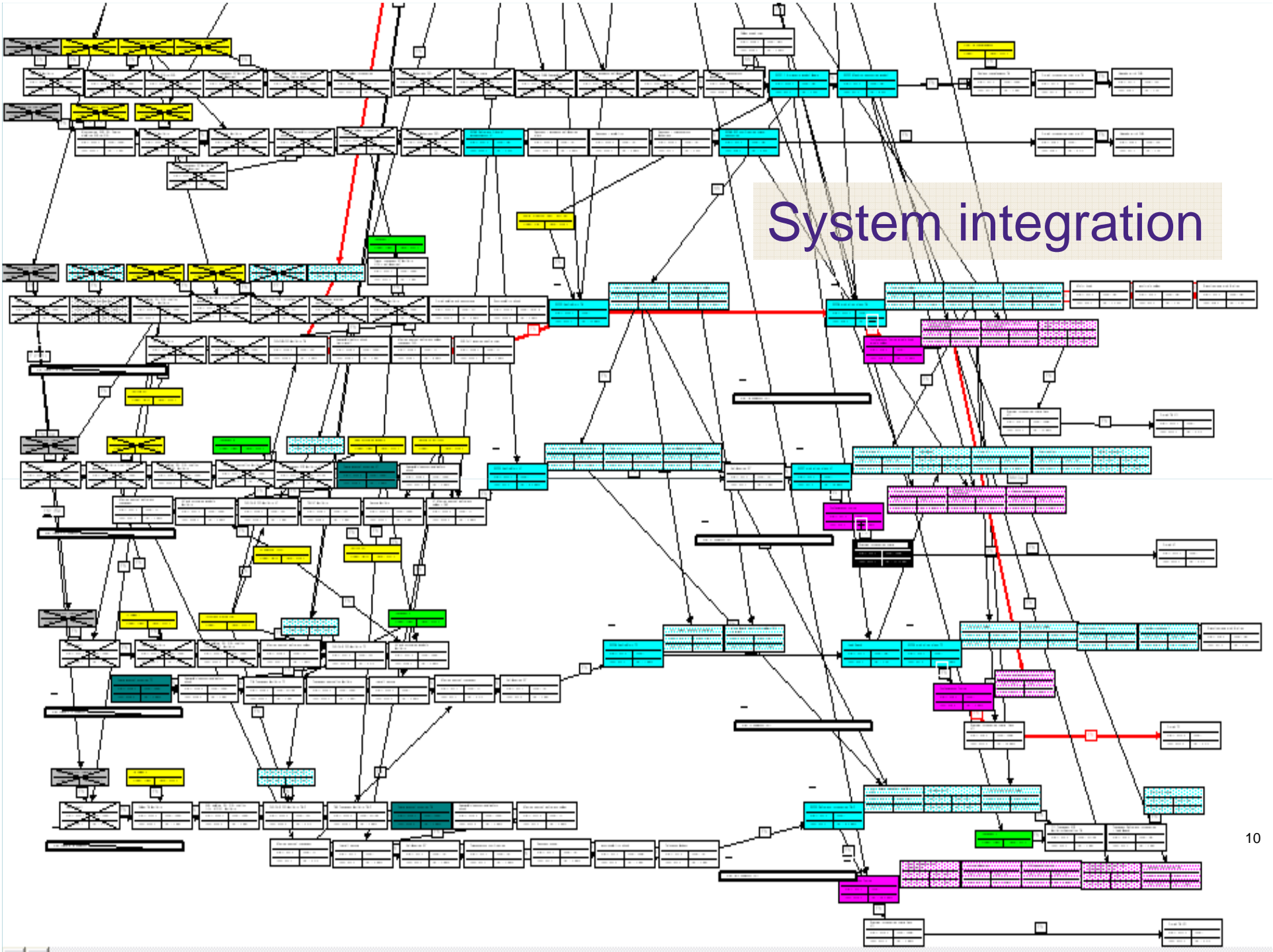
iFlex project Integration challenge



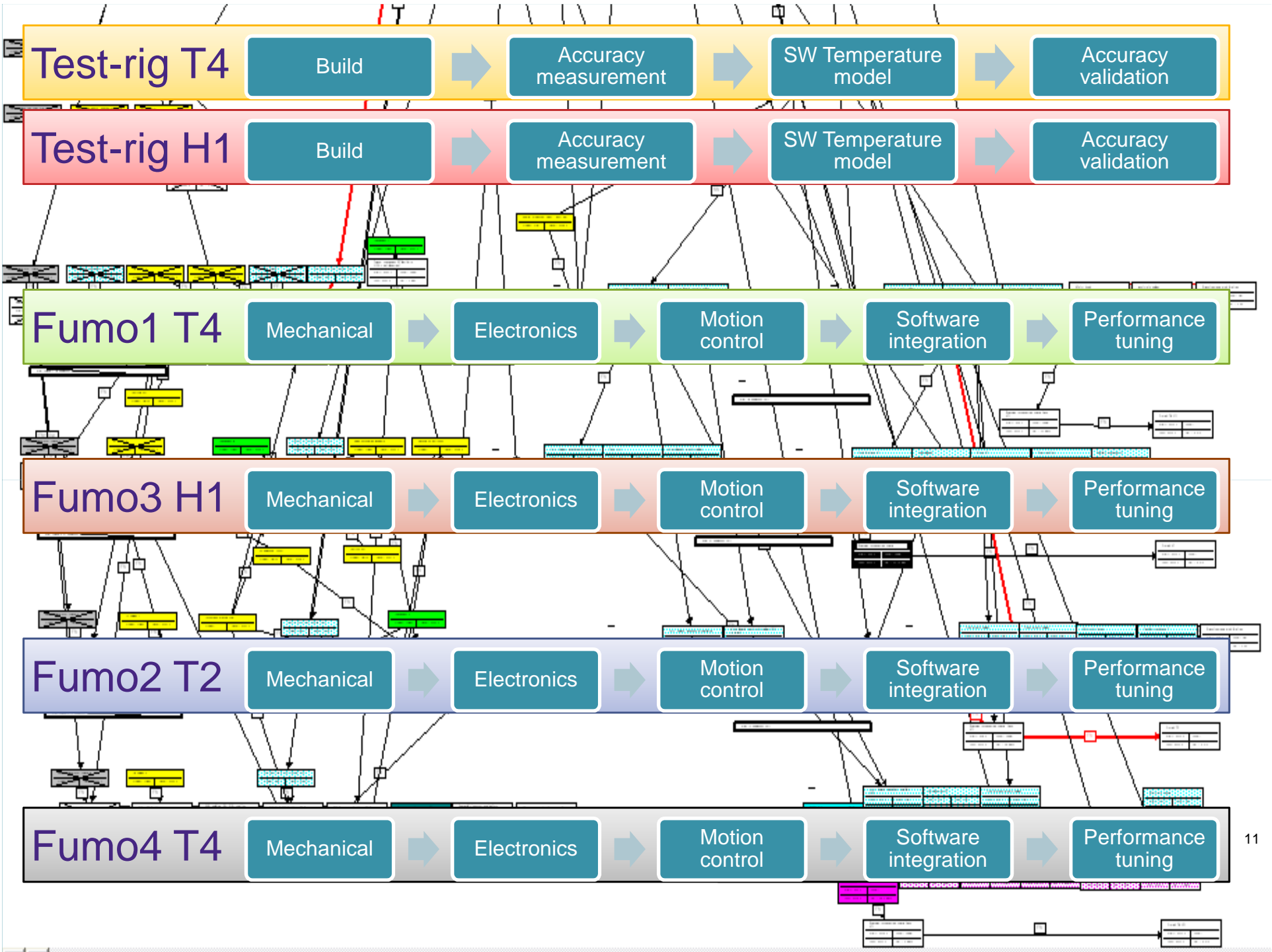
Subsystem integration







System integration

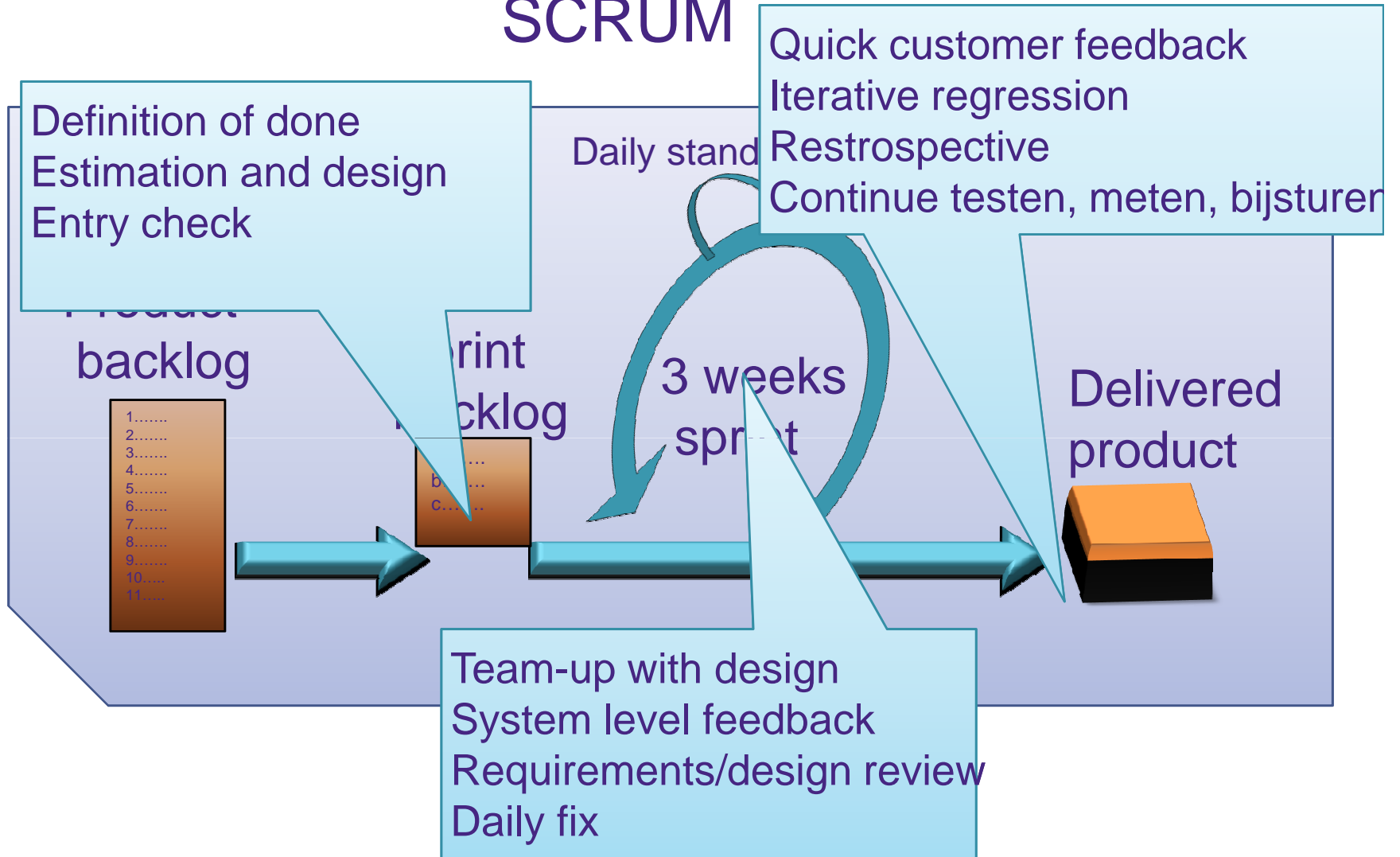


Sub-projects

- 5 HW subsystem projects
- 5 Software development teams
- 1 Software integration team
- 1 shopfloor integration team
- → Resulting in 12 Scrum teams



SCRUM

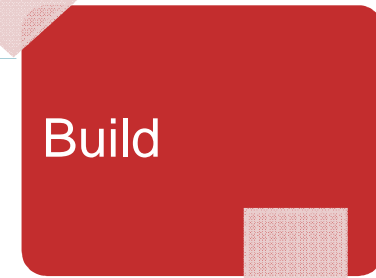
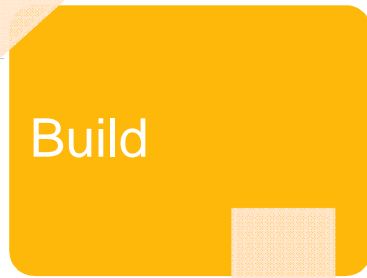
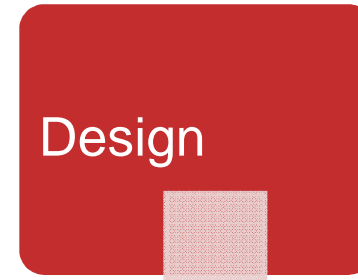
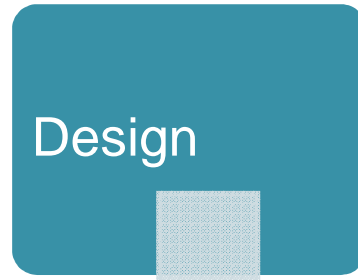
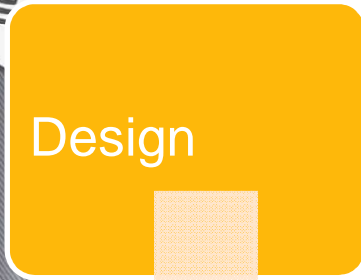


Challenge 1: multi-discipline

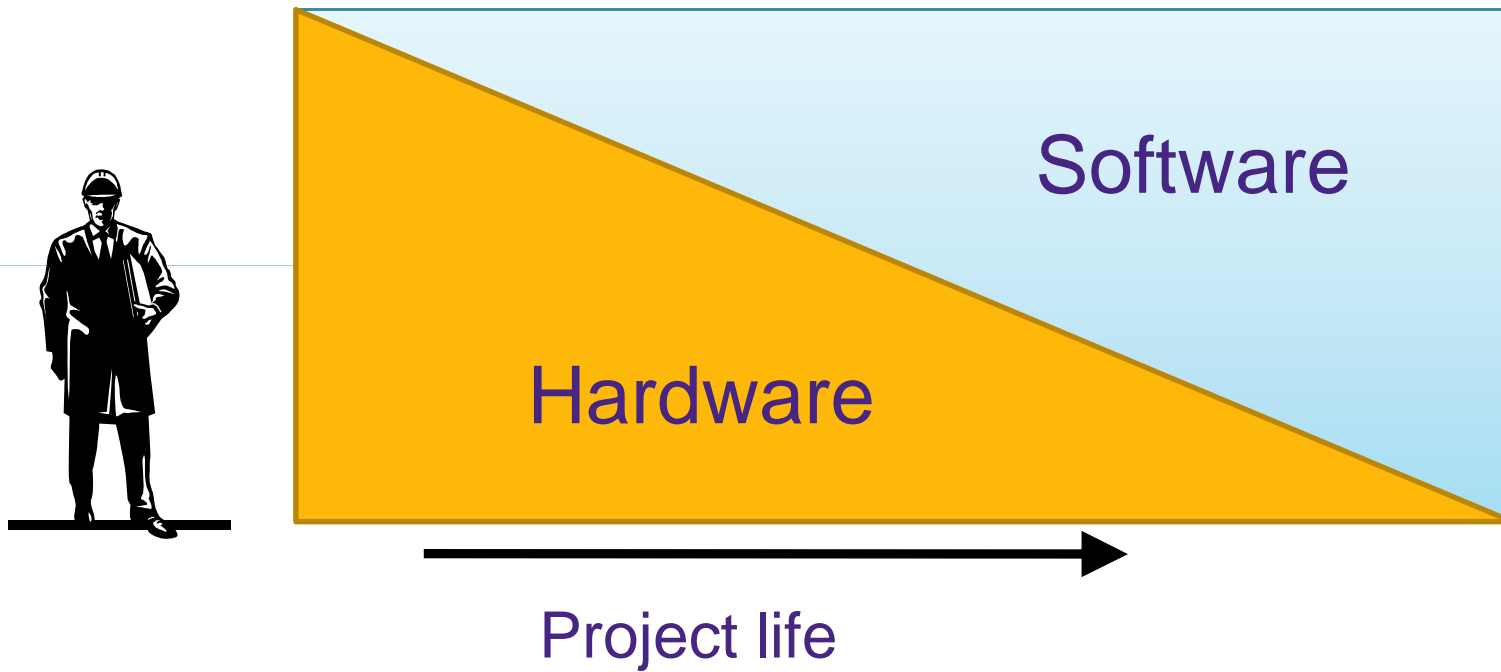
Fumo

Proto

0-series



Testers role



Hardware projects

- Product backlog:
 - Partly invisible, suppliers tasks
 - Difficult to plan in 3 weeks

- Print backlog:
 - Multi disciplinary: Specialist work, difficult to support, team up and compensate
 - Small teams, due to supplier work
 - Lot of invests (8D's) for suppliers

- Standup:
 - Missing support of system engineer
 - Need integral review with other projects/modules, team consists of specialist

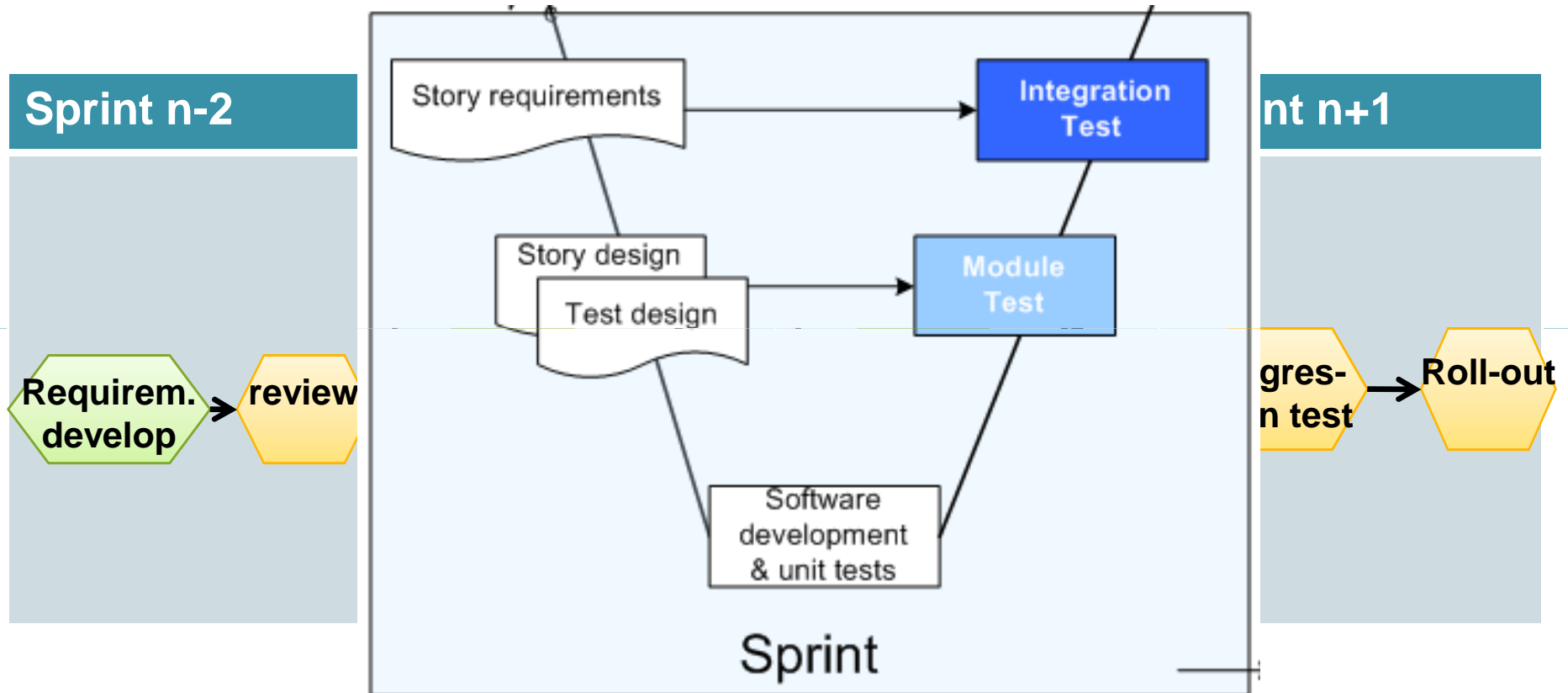


Hardware projects – so, why Scrum?

- Agile:
 - Technical product documentation is not perfect
 - Deliveries are not perfect
 - Focus changes in the project
 - New/changed requirements
- Backlog
 - Communication and visibility
 - Focus: break down into manageable parts
- Standup
 - Where do we stand today
 - Adjust fast



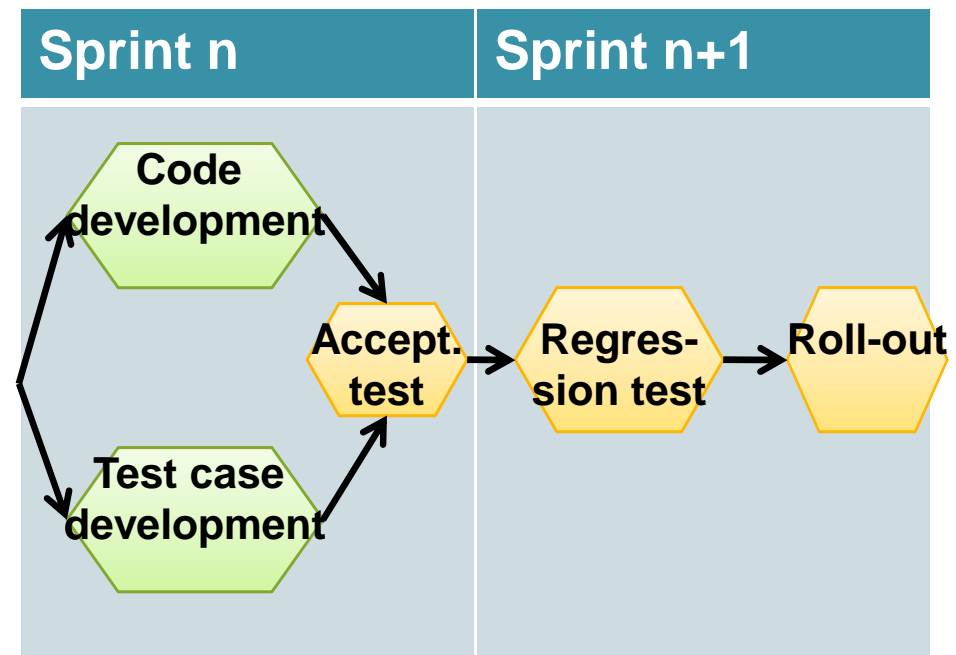
Challenge 2: all in 1



Challenge 3: Shippable product

- End of the sprint a potentially useable product is delivered.
 - Architecture needs to be build – horizontal vs vertical integration
 - Features can be bigger than 1 sprint
 - Refactoring is essential, but no feature
 - End of sprint means integration with suppliers, delivery partners, other teams/projects
 - Next level in V model.

- Overdracht
- Extra eisen aan klant
- Creativiteit



Assembléon

iFlex project
Integration, Test & Agile

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