Agile ORLANDO
JULY 24-28 2023

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#AGILE2023
0. What is Agile@Engineering?

1. Potentially shippable increment for physical products

2. Organization of the team

3. Working with suppliers
Dimensions of Agile

- Agile at Scale
- Agile at Engineering
- Agile for Software (small teams)
- Agile for Hardware
A roadmap to Agile @ Engineering

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Incremental development in software
“To be incremental your physical product must be modular”
Modular development in automotive

Vehicle development
- Front
- Rear
- Lateral
- Interiors
- Cockpit

Software & Electronics
- ADAS
- E-chassis
- Infotainment
- E-body

Platform & Powertrain
- Engine
- Powertrain
- Underbody

Transversal enablers
- Validation
- Product Lifecycle
Modularity in the packaging industry

- Aseptic unit
- Filling unit
- Capper unit
- Labelling unit
Module increment in packaging

Release 1
Cork cap for wine

Release 2
Cork cap for oil

Release 3
To increase speed for cork wine cap

Release 4
Plastic cap for liquids

Release 5
Correct defects

Release 6
Cap for beer
Product increment in packaging
A roadmap to Agile @ Engineering

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Cross functionality in a software team

Tester

Developer

Developer
Specialisation in a hardware team

Engineer

Designer
Mixed approach in the packaging industry
Component teams in the packaging industry

- Team A
- Team B
- Team C
- Team D
- Team E
Critical need for integration (packaging)
Incremental development in automotive

- Delivery Team 1
- Delivery Team 2
- Delivery Team 3

- Front Runner
- Second Vehicle
- Third Vehicle

ADAS development
Dual Ownership

**Business Product Owner (PO)**
- Is responsible for **Return on Investment**
- Defines **priorities** for the functional side
- Is the **interface with stakeholders**

**Technical Product Owner (TPO)**
- Ensures **technical coherence and integration**
- Defines **technical guidelines**
- Takes **technical decisions**
A roadmap to Agile @ Engineering

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5 Roadblocks to be agile with the suppliers

- Excessive Bureaucracy
- Contracts are too rigid
- Secrecy
- Impenetrability
- Lack of trust
1. Buyer within the Agile team

- Exploration of alternatives
- Definition of sourcing strategy
- Creation of an effective network of suppliers
2. Integrated suppliers into an Agile team
3. Team Agile & Suppliers (Aeronautics)

Framing

Organization and supplier worked together to define the elements of the backlog and the roadmap based on 2-week sprints

Development

Organization and supplier worked independently with frequent integration points
<table>
<thead>
<tr>
<th></th>
<th>Lessons learnt</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Remember you sell products, not organisation!</td>
</tr>
<tr>
<td>2</td>
<td>Focus on simplicity</td>
</tr>
<tr>
<td>3</td>
<td>Make your teams autonomous</td>
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<tr>
<td>4</td>
<td>Experiment… learn fast!</td>
</tr>
</tbody>
</table>
Thank you and keep in touch!

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Incremental planning

1. **Earliest Testable Product**
   - To test key product functionalities

2. **Minimum Viable Product**
   - To be used in another development

3. **Final Product**
   - Full version of the product

Lasciare o no?