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INTRODUCTION



- Methodology team and SW Manager decided to find a different way for managing the current projects and the result was the application of SCRUM + Automotive Spice for SW Development.
- The exposition will present how we applied the SCRUM Framework, whit its roles, artifacts and events in our software development context and how we make possible the interaction between the classical approach of project management requested by our customers and the agile project management.

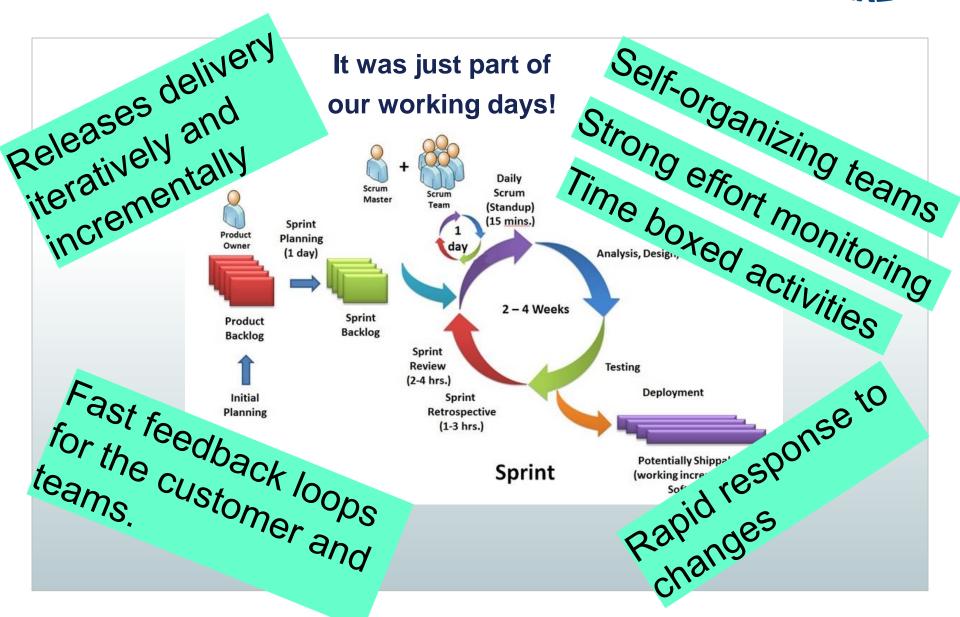
INTRODUCTION



- What we have always have in mind and it is important to clarify is that:
- Process Maturity Models like Automotive Spice, CMMI and others reside at the WHAT level (the goals) while Agile approaches like SCRUM, Kanban rather are at the HOW level (the way to the goals).

WHY MM AGILE APPROACH?





WHY MM AGILE APPROACH?



Well alignement between MM Roles and SCRUM Roles

Product Owner (Software Project Leader)

- Clearly expresses Product Backlog items;
- Order the items in the Product Backlog to best achieve goals and missions;
- Ensures that the Product Backlog is clear to all;
- Ensures the Development Team understands items in the Product Backlog.

Development Team (Domain Team)

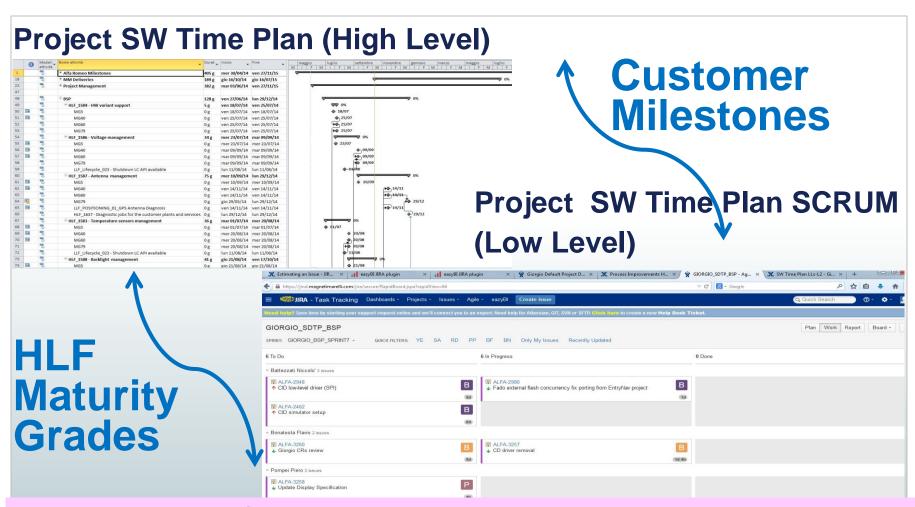
- Are structured and empowered to organize and manage their own work.
- Are cross-functional, with all of the skills necessary to create a product Increment
- Define how to turn Product Backlog items into Increments
- Are responsible for the Sprint Backlog

Scrum Master (Methodology Engineer & Domain Leader)

- Ensures that the Scrum Team adheres to Scrum theory, practices, and rules
- Helps the Development Team to create high-value products;
- Removes impediments to the Development Team's progress;
- Facilitates Scrum events as requested or needed.

HOW DID WE ALIGN CLASSICAL AND AGILE APPROACH?





HLF is a group of System Requirements that provides clear visibility of the product status implementation.

HOW DID WE ALIGN CLASSICAL AND AGILE APPROACH?

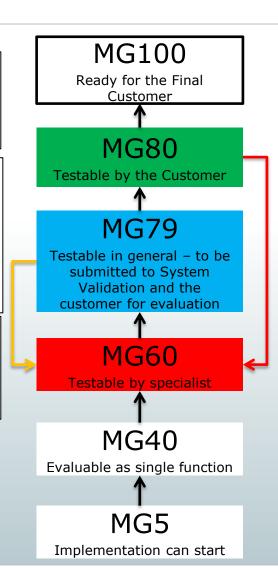


If no issues or minor issues tolerated by the customer

If major regression is highlited from customer test and is not fixed in the next available delivery

If not tolerable issues highlited during meeting

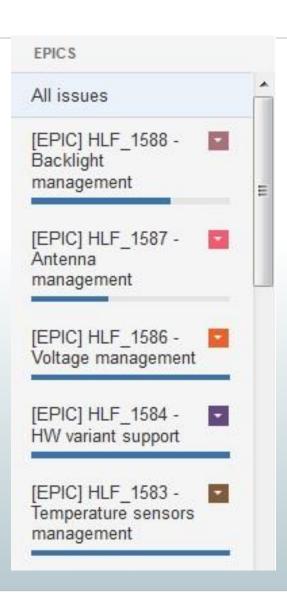
HLF Maturity



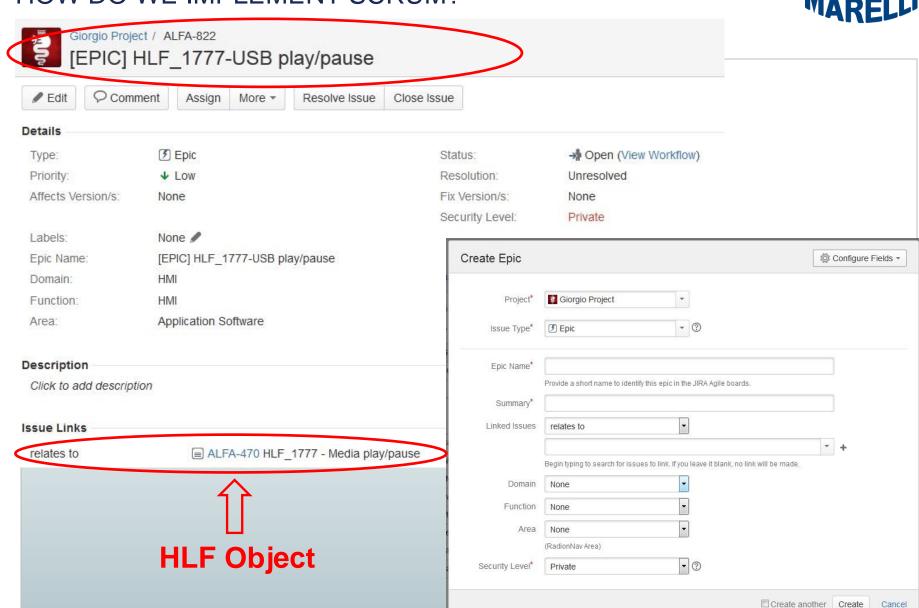
Project SW Time Plan (High Level)

- MG5: MG5 planned date
- MG40: MG40 planned date
- MG60: MG60 planned date
- MG79: MG79 planned date
- MG80: MG80 planned date









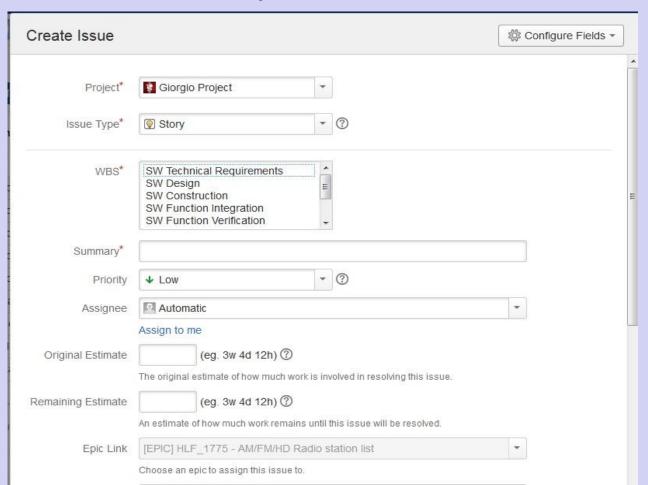


Product Backlog

The HLF (EPIC) is composed of internal «touchable» products.

The task to perform in the Story should be selected from the Standard SW

WBS.





Task List (SW WBS):

- SW Technical Requirements
- SW Technical Requirements\Review
- SW Design
- SW Design\ High Level
- SW Design Detail Level
- SW Design\ Review
- SW Construction
- SW Construction\ Unit Testing, Review, Automatic Review
- SW Integration

- SW Integration\ Review, SW Integration Testing
- SW Integration Testing\ Review, SW Integration Testing
- SW Testing\ Review, SW Testing
- Support\ Defect Management
- Support\ Change Management
- Support\ Project Training
- Support\ Configuration Management
- Support\ SYS-SW Quality Assurance
- SW Function Planning & Scheduling
- SW Function Monitoring & Control
- SW Function Supplier Management

Deliverable Plan & Working Areas

- Deliverable Plan HOW TO
- > Program Management
- > Requirement and Architecture Management
- Product Development
- Software Development
- > SIV & Delivery
- SW Function Management
 - ~ BSP
- BSP Detail Software Module Design
 - · BSP SW Function Progress Report
 - BSP Retrospective
 - BSP Working Area
- > CONNECTIVITY
- > HMI
- HOUSEKEEPING & DIAGNOSTIC
- > MULTIMEDIA
- NAVIGATION & POSITIONING
- > NETWORK & LIFECYCLE

BSP

Created by Rocio Cecilia Rojas, last modified by Zaniratti Eugenia on Oct 24, 2014

SW WBS	Official Deliverables	Acronym	Owner	Project Availability	Repository	Path
SW Function Planning and Scheduling	SW Function Development Plan	SFDP	Function Leader Feature Reference	NO	Confluence	Included in: Software Development Plan
	SW Function Time Plan L3	SDTP	Function Leader Feature Reference	YES	JIRA	GIORGIO SW Detail Time Plan L3 BSP SCRUM
	Sizing		Feature Reference Function Architect	YES	JIRA	GIORGIO SW Detail Time Plan L3 BSP SCRUM
	SW Function Workload Plan		Function Leader Feature Reference	YES	JIRA	GIORGIO SW Detail Time Plan L3 BSP SCRUM
	SW Function Verification & Testing Plan	SVTP	Function Leader Feature Reference			
SW Function Monitoring and Control	SW Function Progress Report		Function Leader Feature Reference	YES	Confluence	BSP SW Function Progress Report
	SW Function Time Tracking		Function Leader Feature Reference	YES	JIRA	GIORGIO SW Detail Time Plan L3 BSP SCRUM

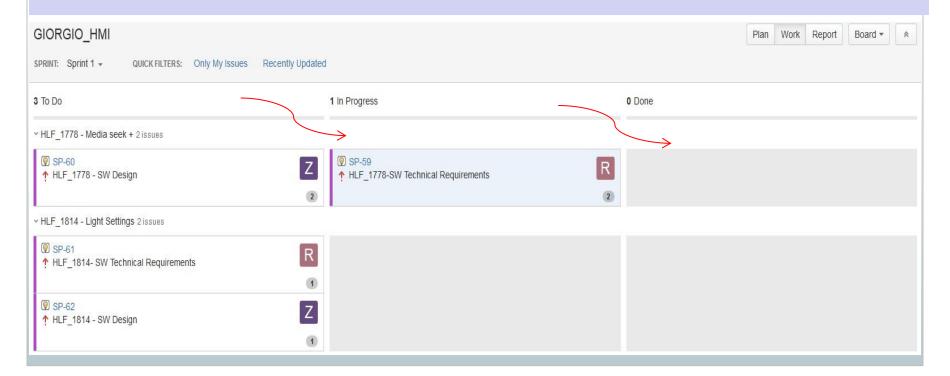


Sprint Backlog

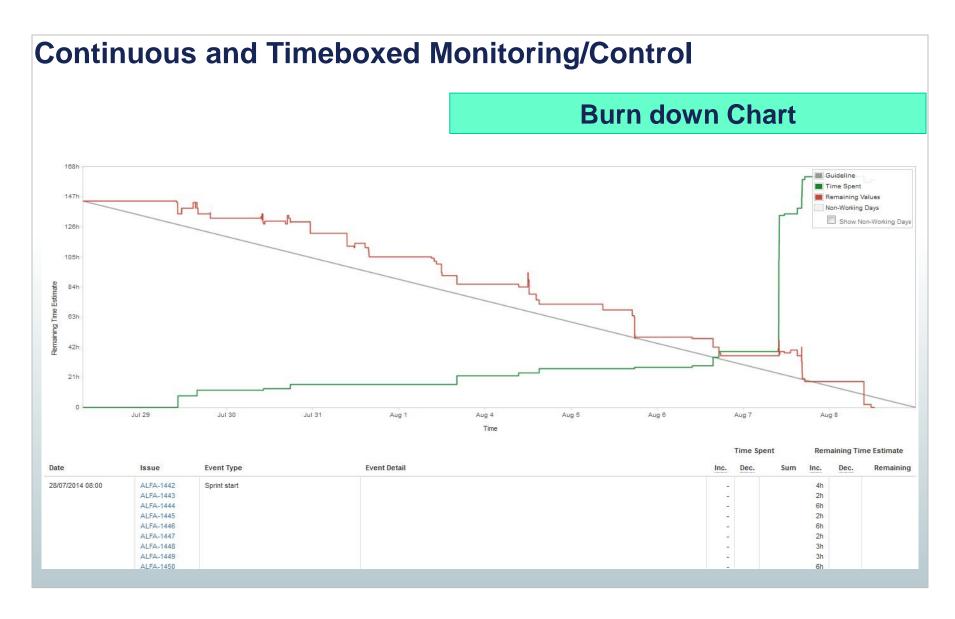
The Sprint Backlog is a forecast by the Development Team about what functionality will be in the next Increment and the work needed to deliver that functionality into a "Done" Increment.

A new Sprint starts immediately after the conclusion of the previous Sprint.

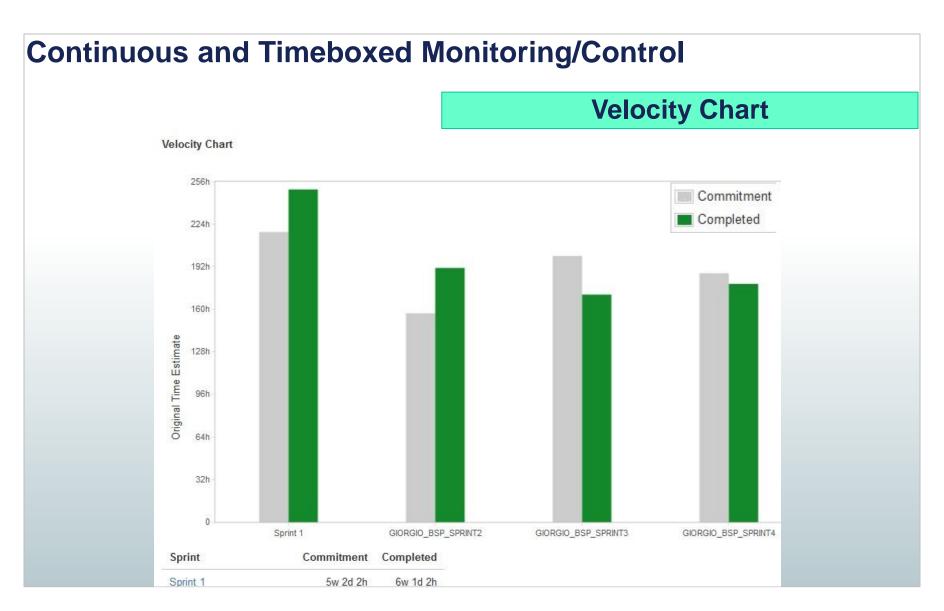
Sprints contain and consist of the Sprint Planning, Daily Scrums, the development work, the Sprint Review, and the Sprint Retrospective.









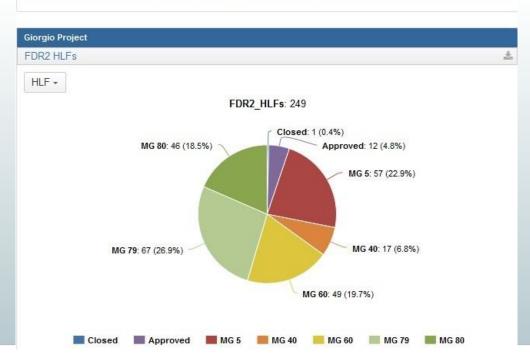




Continuous and Timeboxed Monitoring/Control

Milestones Dashboard







Continuous and Timeboxed Monitoring/Control

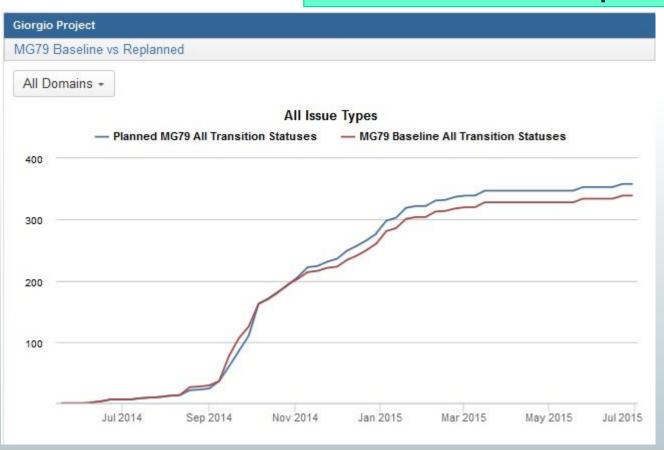
HLF Ramp-Up Actual Vs. Planned





Continuous and Timeboxed Monitoring/Control

Baselined VS Re planned





Continuous and Timeboxed Monitoring/Control

Target Defect Convergence Curve Phase Containment Effectiveness





THANKS!