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How to use ALM and Agile for continued growth

Using hybrid Agile-waterfall principles using just-in-time-data provided by modern ALM solutions

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MYTH	vs.	FACT
X Agile means no documentation, no contracts.		The right Agile tool provides a single source for all documentation and contracts. ✓
X Excel is the best tool for Agile.		Excel can't provide version management, customer requirement specification/ approval or change requests. ✓
X Agile can't be used in large enterprises.		Application lifecycle management (ALM) solutions offer support across organizational roles. ✓
X By putting any Agile tool in the process, you increase your agility.		ALM is the state-of-the-art proposition in the software development tools market. ✓

MOST COMMON AGILE METHODS

DYNAMIC SYSTEMS DEVELOPMENT METHOD (DSDM)

Extension of rapid application development practices and includes principles for active user involvement, frequent delivery, team decision making, and integrated testing

EXTREME PROGRAMMING (XP)

XP promotes values of community, simplicity, feedback, and courage alongside altering the view of the cost of change and placing emphasis on technical excellence

SCRUM

Focuses on a project management framework within 30-day sprint cycles including daily 15-minute team meetings for coordination and integration

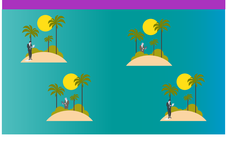
BALANCING DEVELOPMENT & GOVERNANCE

While developers code in an Agile world with Agile tools, others in the company must be able to define and refine requirements, submit changes, and track project status using their favorite methods and tools.

1. Requirements Management
2. Risk Management
3. Regulatory Compliance
4. Corporate Governance
5. Project Management

EVOLUTION OF SOFTWARE DEVELOPMENT TOOLS

"Bad Old Days": Disparate Tools & Data



New toolsets defined new disconnected islands of automation, resulting in new bridges between toolsets.

State-of-the-art Tools of Today

ALM integrates islands of automation with robust feature sets to unify and support different roles.

THE LIVE APPROACH

The Live approach from Siemens Digital Industries Software provides a set of guidelines introducing a new philosophy in managing software development artifacts and development-related information.

INFORMATION MODEL AND STORAGE

1. Guideline 1: Single ancestor
2. Guideline 2: Single source
3. Guideline 3: Single repository
4. Guideline 4: Custom work item class specializations

INFORMATION AVAILABILITY

5. Guideline 5: Live features
6. Guideline 6: Exposure

COMPLIANCY TAXONOMY

The following taxonomy contains a set of criteria to check any development environment to state its level of Live approach compliancy.

	Level 1 Foundation	Level 2 Connection	Level 3 Fusion	Level 4 Control	Level 5 Govern
Live Availability	Live search	Live trace	Live track	Live plan	Live dashboard
Live Information	Work item class defined as common ancestor and single source.	Work items connected through links.	Work items stored in a single logical repository.	Work items store information related to time, priority/ cost and approvals.	Work items are customized item class specializations.

BRIDGING THE AGILE GAP WITH LIVE

The Live approach can bridge the gap between Agile (in the R&D team) and formal (outside R&D) processes using tools that provide Live and available project information starting at Live level 4.

STAY AGILE & MEET BUSINESS NEEDS

Staying Agile in software R&D departments while matching corporate needs is possible thanks to tools like Polarion® ALM from Siemens Digital Industries Software. The Live approach combines the benefits of Agile software development and the more formal requirements of management, planning and governance, enabling companies to move forward together, faster.

Download the whitepaper to learn more about the Live approach and ALM.