

DevOps, SAFe and critical information bearers. A practical approach to achieve consistent planning and communication Erik Schumann - Lean | Agile Coach (SPC) erik.schumann@sellegi.se





About Sellegi Technologies

Sellegi Technologies focus is to help companies scale their agile and lean efforts with training, consultancy and tools.

- Sellegi offers tools, services and training for complex projects with top of the line experts in the areas
 - ways of working
 - agile and lean development
 - automated information analysis
 - tool integrations
- Sellegi ACT is an agile tool for portfolio and program management
- Sellegi Technologies is a tooling and service partner to Scaled Agile Inc

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Authorized Software Value Plus Rational









Agenda

- DevOps Planning Scenarios
- SAFe Overview
- Program Information Flow
- Consistent Prioritization
- References

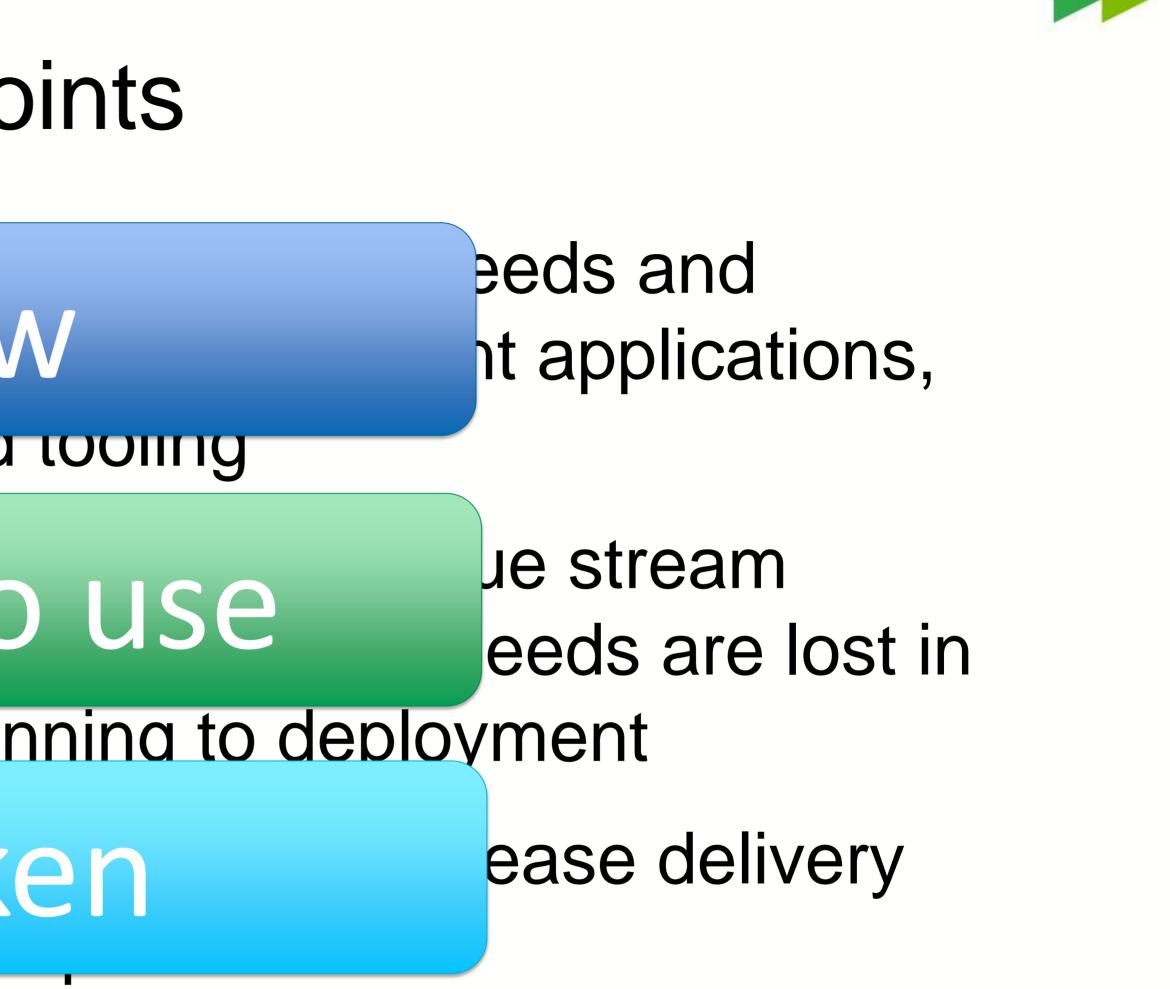




DevOps Business Pain Points

> Inability t Slow changes b processes, technologies, and tooling > Unremark Hard to use becomes translation from business planning to deployment Broken > Unintende due to inak







Addressing Business Pain Points How do we track delivery of value to our customers across

Empower Program Delivery

- Accelerate delivery of value with joined application delivery **pipeline** in synchronized Agile Release Trains
- Focus on delivery of value through customer & delivery analytics



multiple inter-dependent teams??

> Synchronize program-wide changes with multi-level planning



Key Scenarios – Deliver Corporate Initiative

Sub-Scenarios	Core Solution	Roles		
#&@\$! Happens	Synchronize program-wide changes and roadmap with multi-level planning	 Program Management Team Enterprise IT Architect Execution Teams Business Owner 		
Implement and Deploy the #&@\$!	Accelera Autorite Planning application delivery pipeline in synchronized Agile Release Trains	 Program Management Team Enterprise IT Architect Execution Teams 		
why Isn't the #&@\$! Getting to Customers?	Focus on delivery of value through customer & delivery analytics	 If Director Lean Improvements Team 		







SAFE OVERVIEW



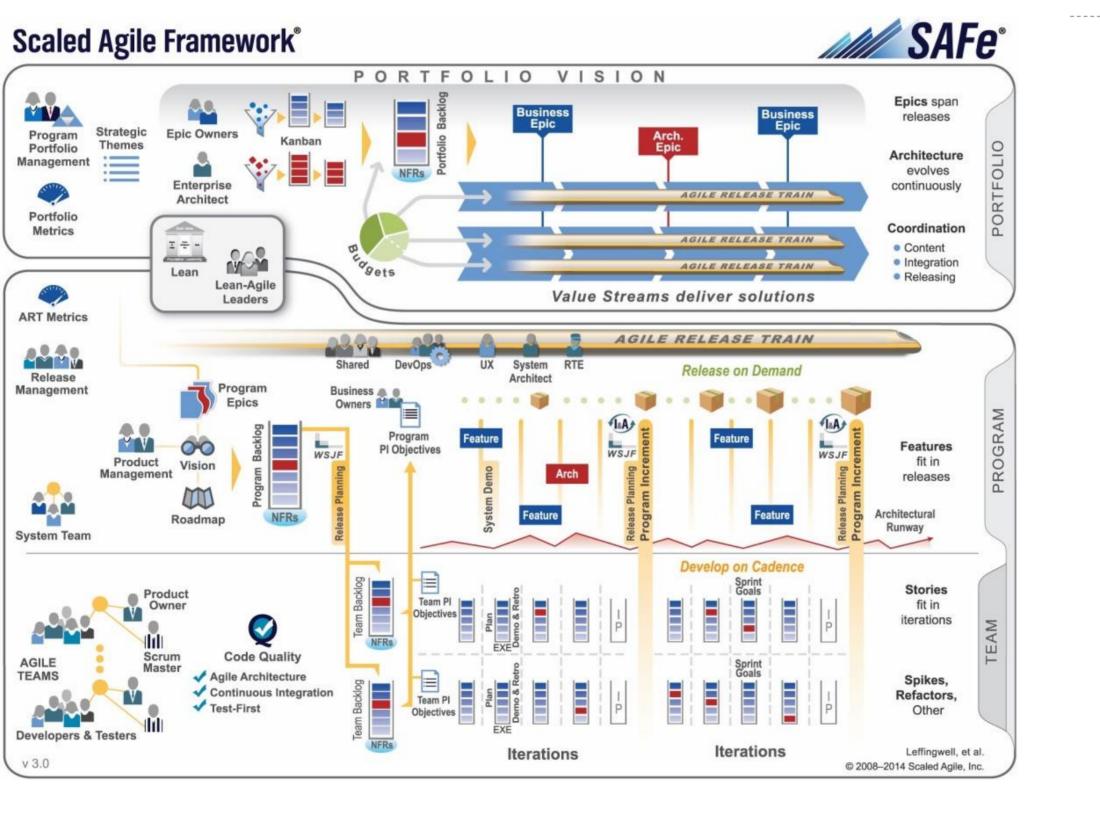






The Scaled Agile Framework (SAFe)

A proven, publicly-facing framework for applying Lean and Agile practices at enterprise scale



ScaledAgileFramework.com



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CORE VALUES

- **Program Execution**
- 2. Alignment
- 3. Code Quality
- Transparency

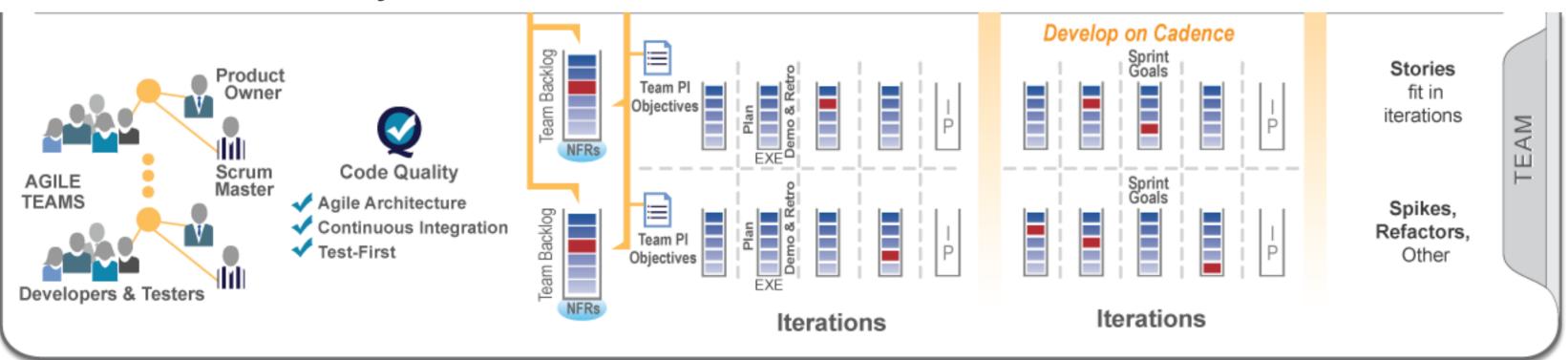
Synchronizes alignment, collaboration and delivery for large numbers of teams



Nothing Beats an Agile Team

- Valuable, fully-tested software increments every two weeks
- Empowered, self-organizing, self-managing cross-functional teams
- Teams operate under program vision, architecture and user experience guidance
- Scrum project management and XP-inspired technical practices
- Value delivery via User Stories

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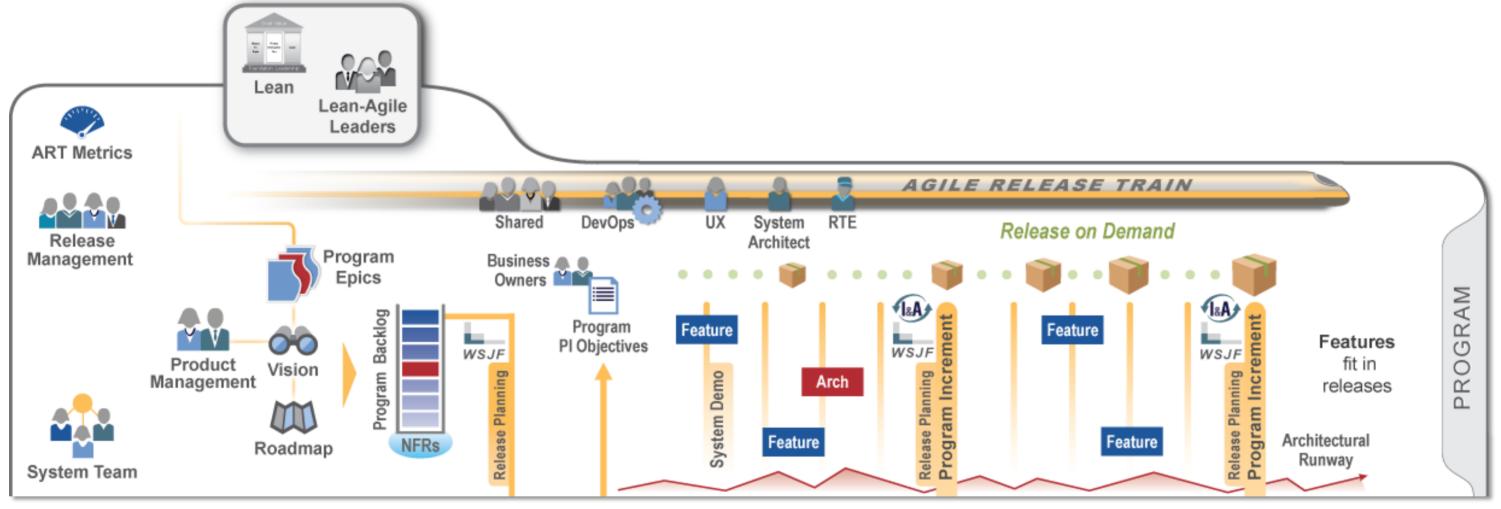


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Scale to the Program Level

- Self-organizing, self-managing team-of-agile-teams
- Working, system increments every two weeks
- Aligned to a common mission via a single backlog



- Common sprint lengths and estimating
- Value Delivery via Features and Benefits

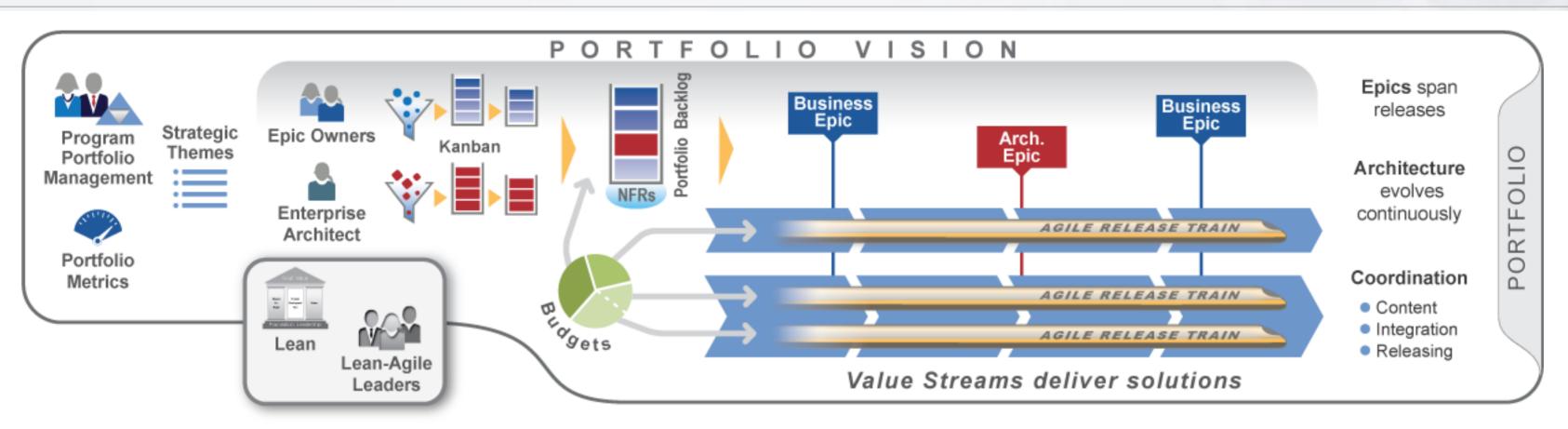




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Face-to-face release planning cadence for collaboration, alignment, synchronization, and assessment

Scale to the Portfolio



- Centralized strategy, decentralized execution
- Lean-Agile budgeting empowers decision makers
- Kanban systems provide portfolio visibility and WIP limits
- Enterprise architecture is a first class citizen
- Objective metrics support governance and kaizen
- Value description via **Business** and **Architectural Epics**

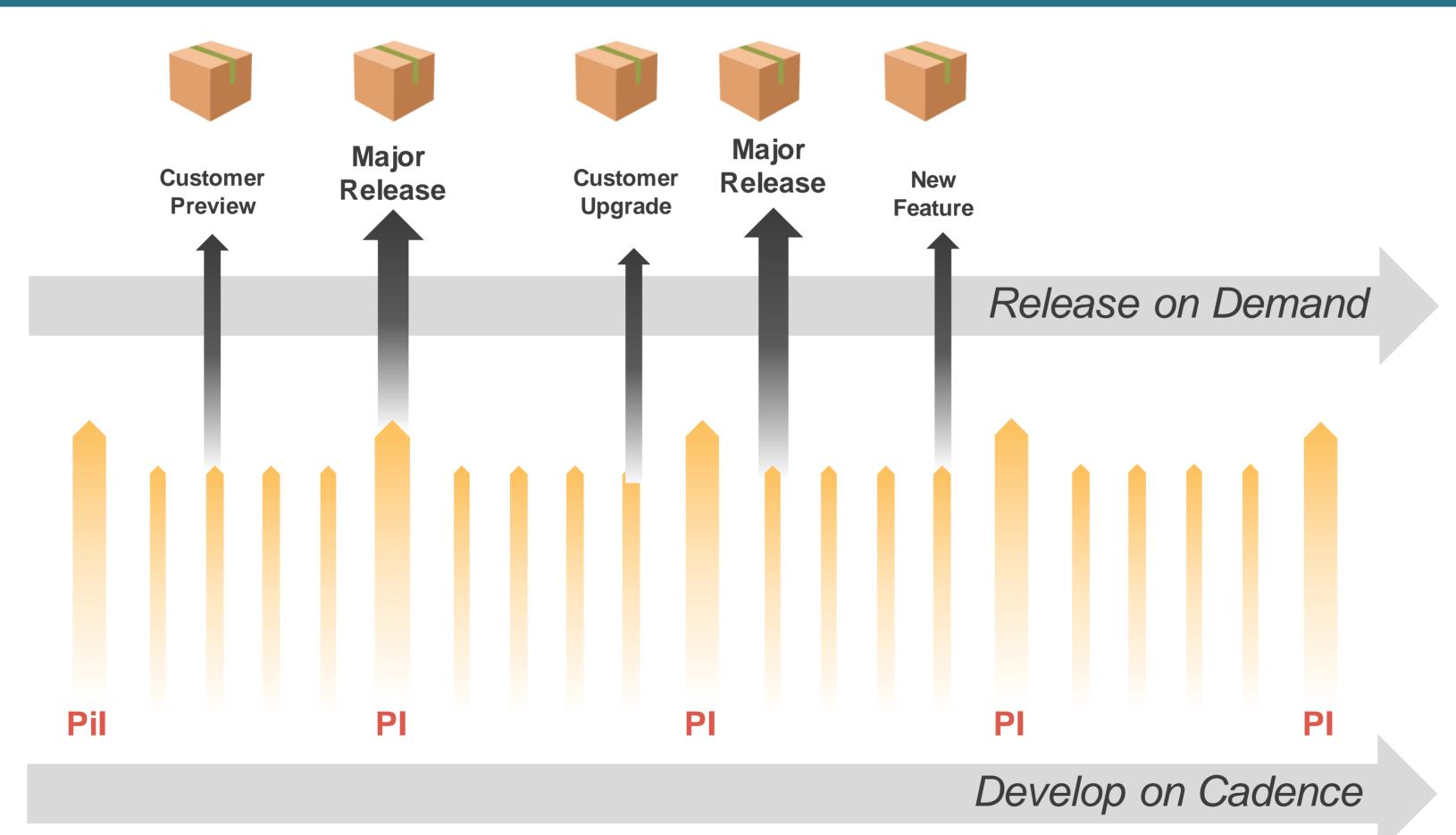


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Develop on Cadence. Release on Demand.

Development occurs on a fixed cadence. The business decides when value is released.





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Transparency

Transparency builds confidence, alignment and trust







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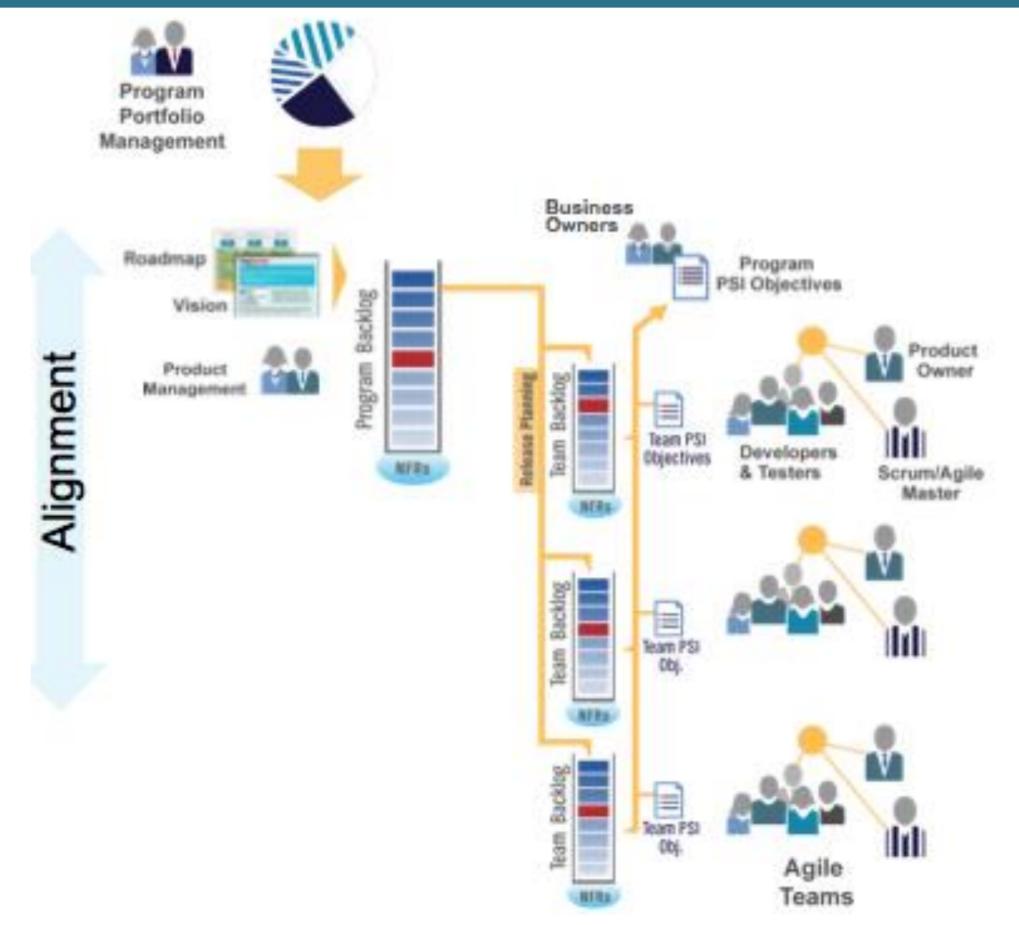


- All backlog and progress visible to all stakeholders
- Objective reporting based on working, tested, evealuated code
- Evereryone understands backlog, capacity, velocity, WIP
- Managements leads and fosters open environment



Alignment

"There is more value created with overall alignment than with local excellence." – D. Reinertsen







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Clear content authority

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- Face to face planning
- Aligned Team, **Program and Business** owner objectives
- Cross-team and crossprogram coordination
- Architecture and UX guidance
- Match demand to throughput





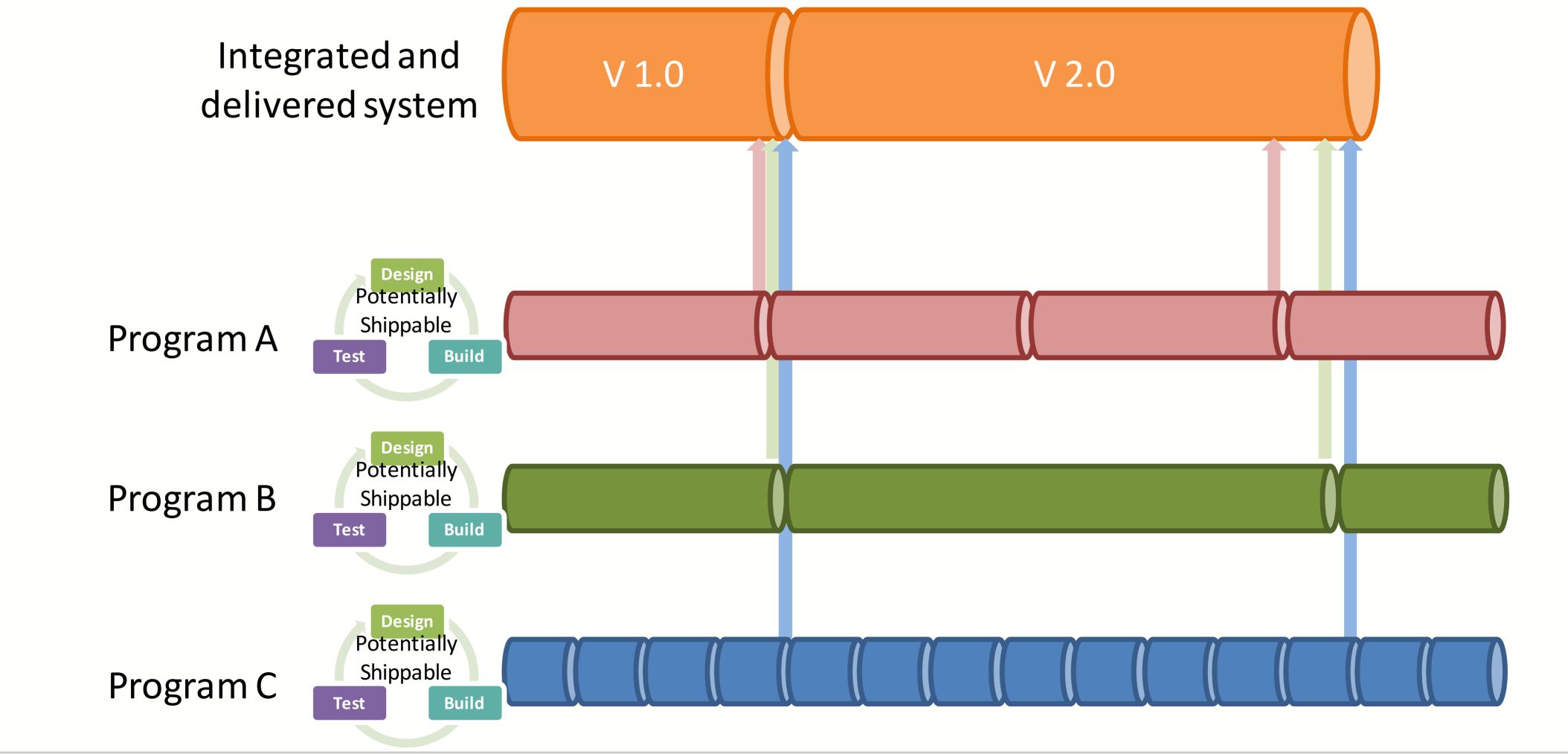
PROGRAM INFORMATION FLOW AND CONSISTENCY





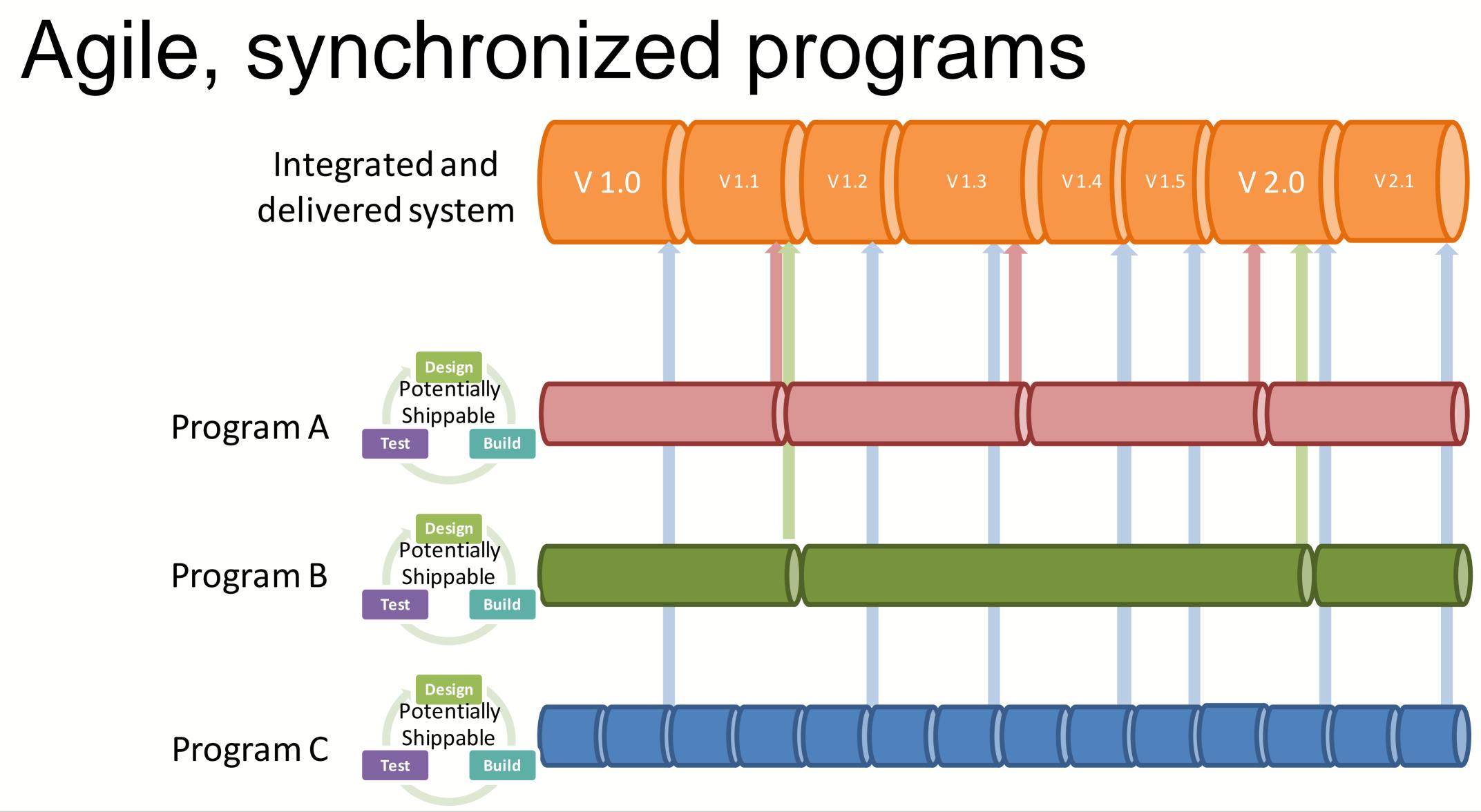


Traditional, finished programs



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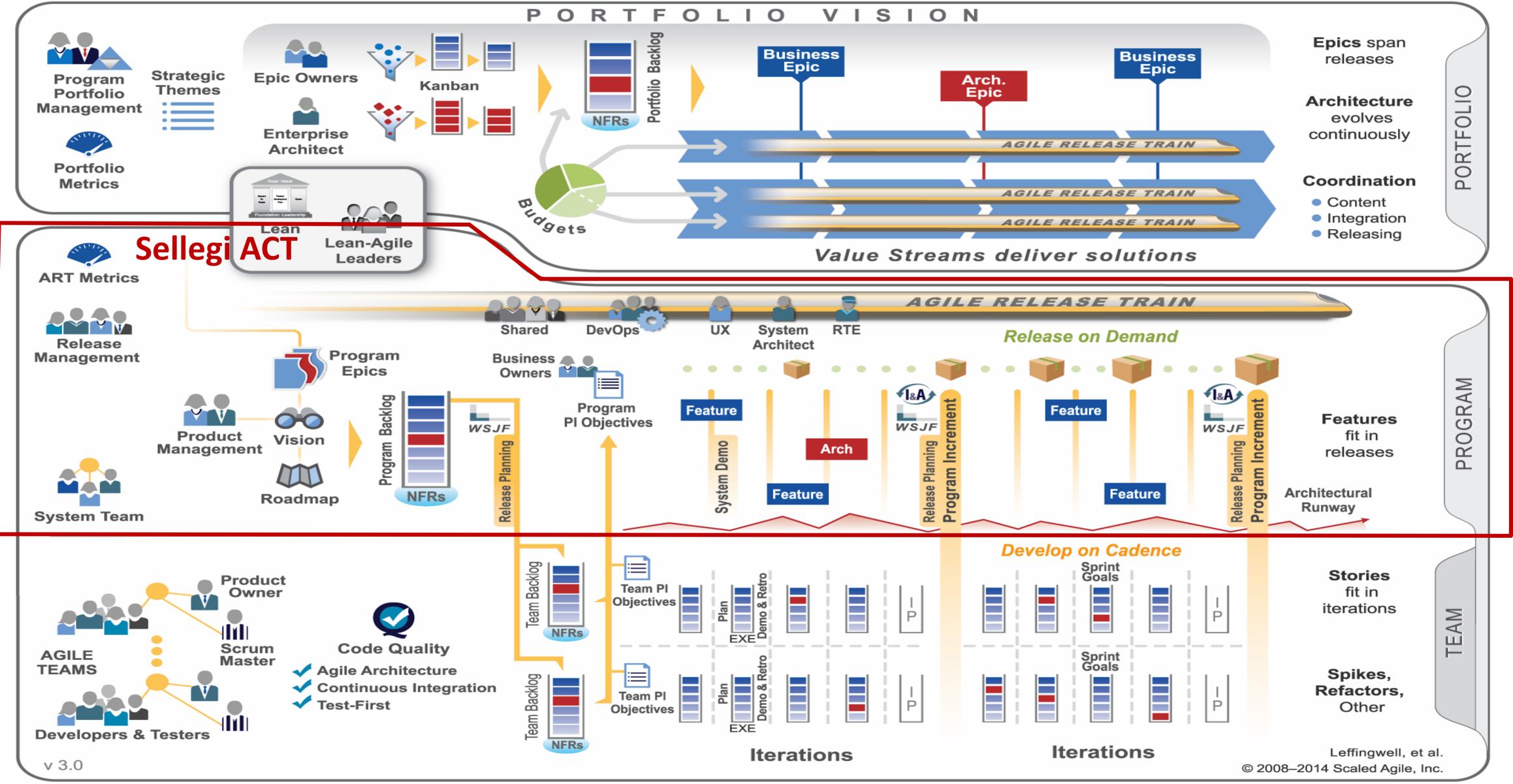


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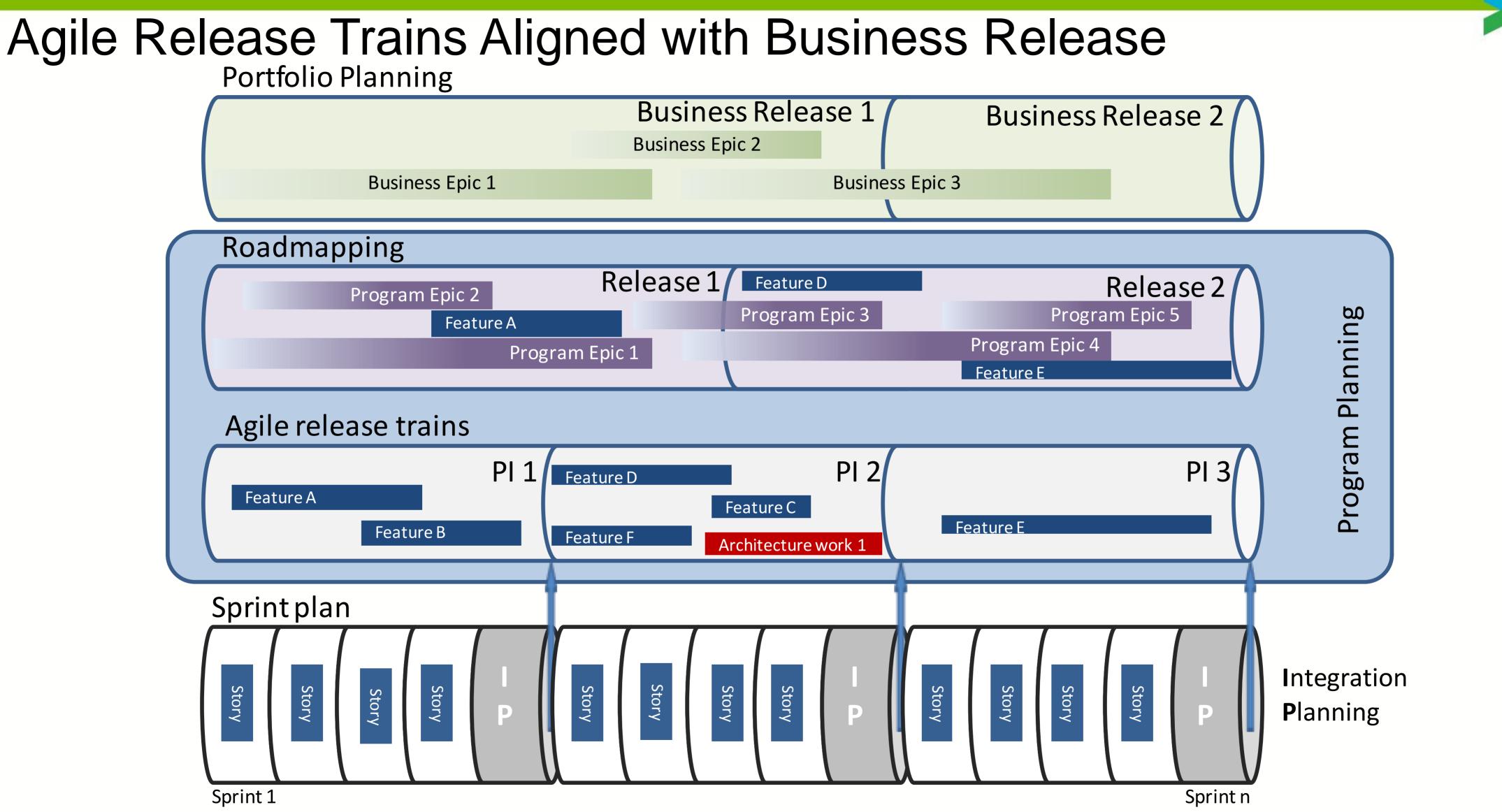


Scaled Agile Framework®





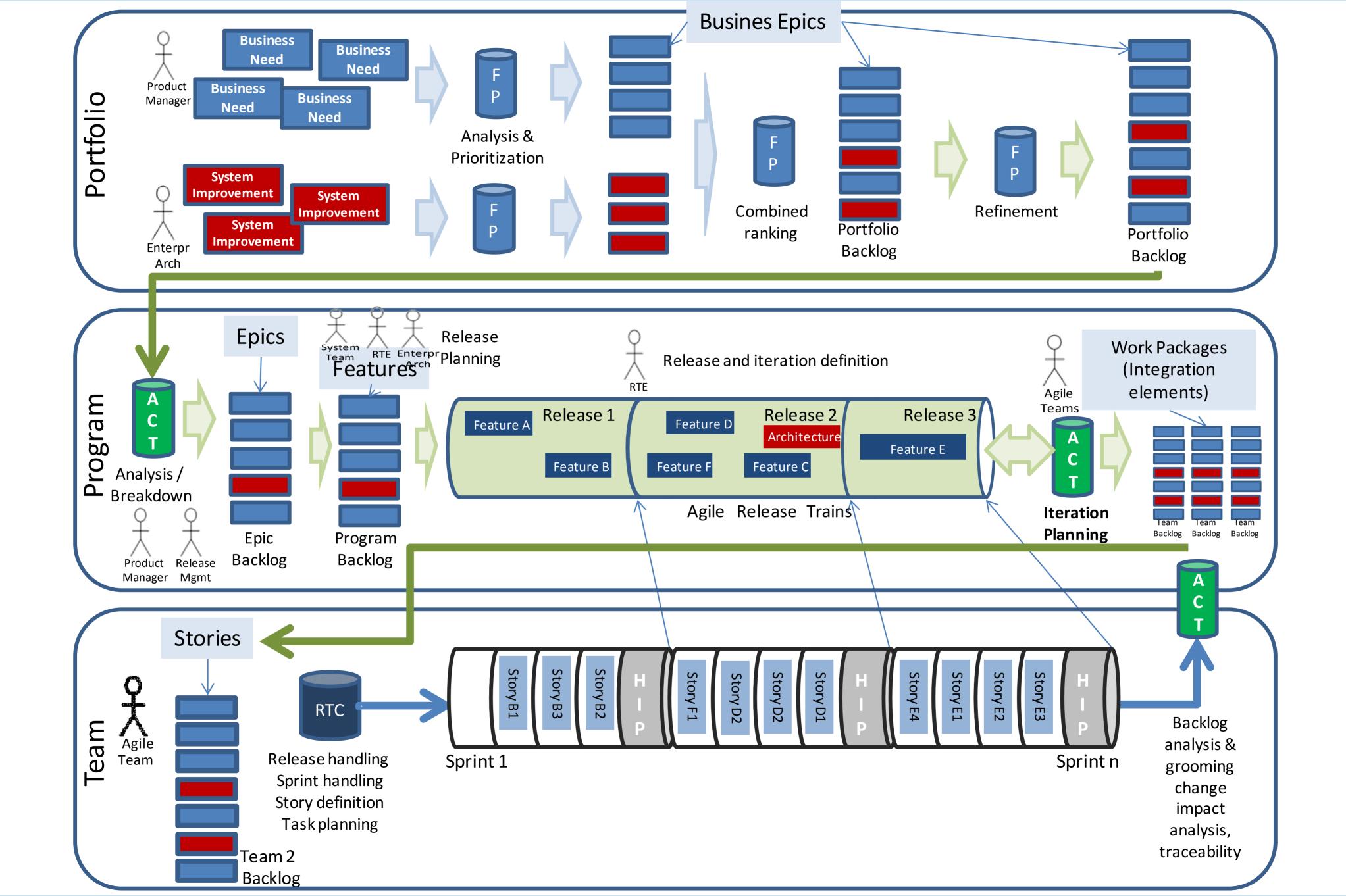
Portfolio Planning

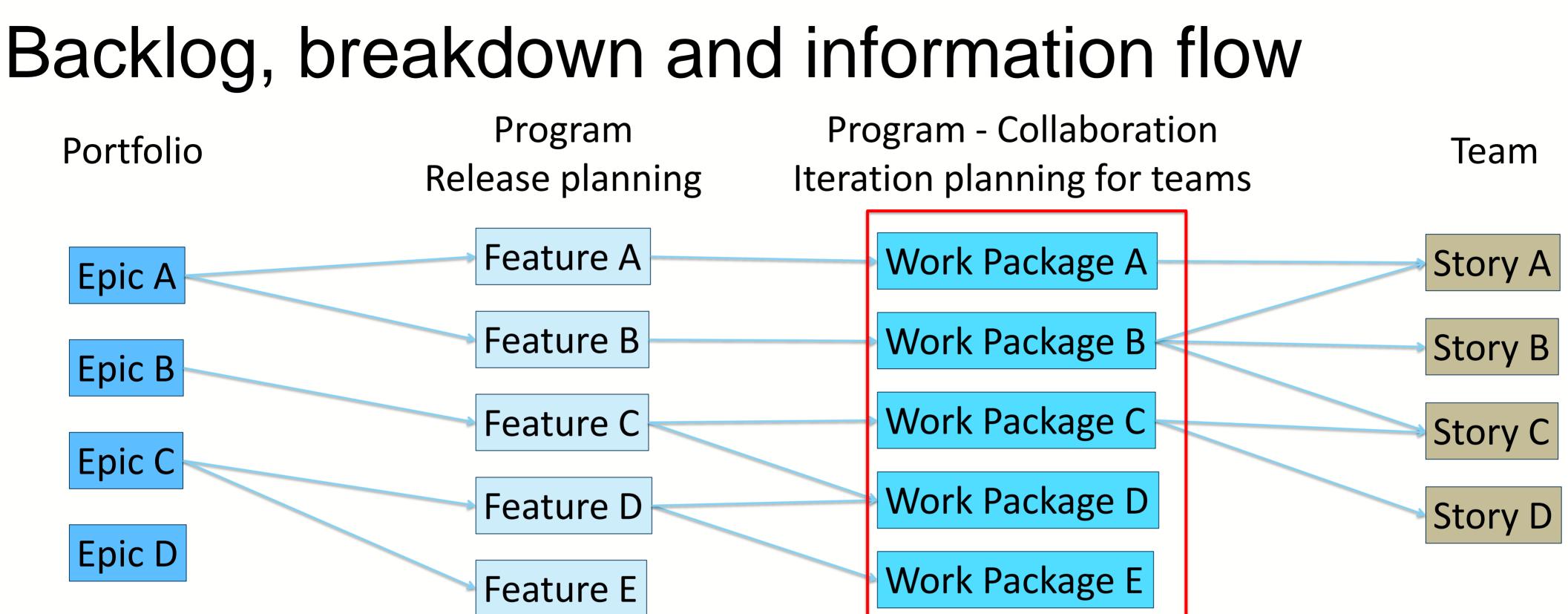


At the end of each sprint, the system is executable, testable and there are no open dependencies between teams





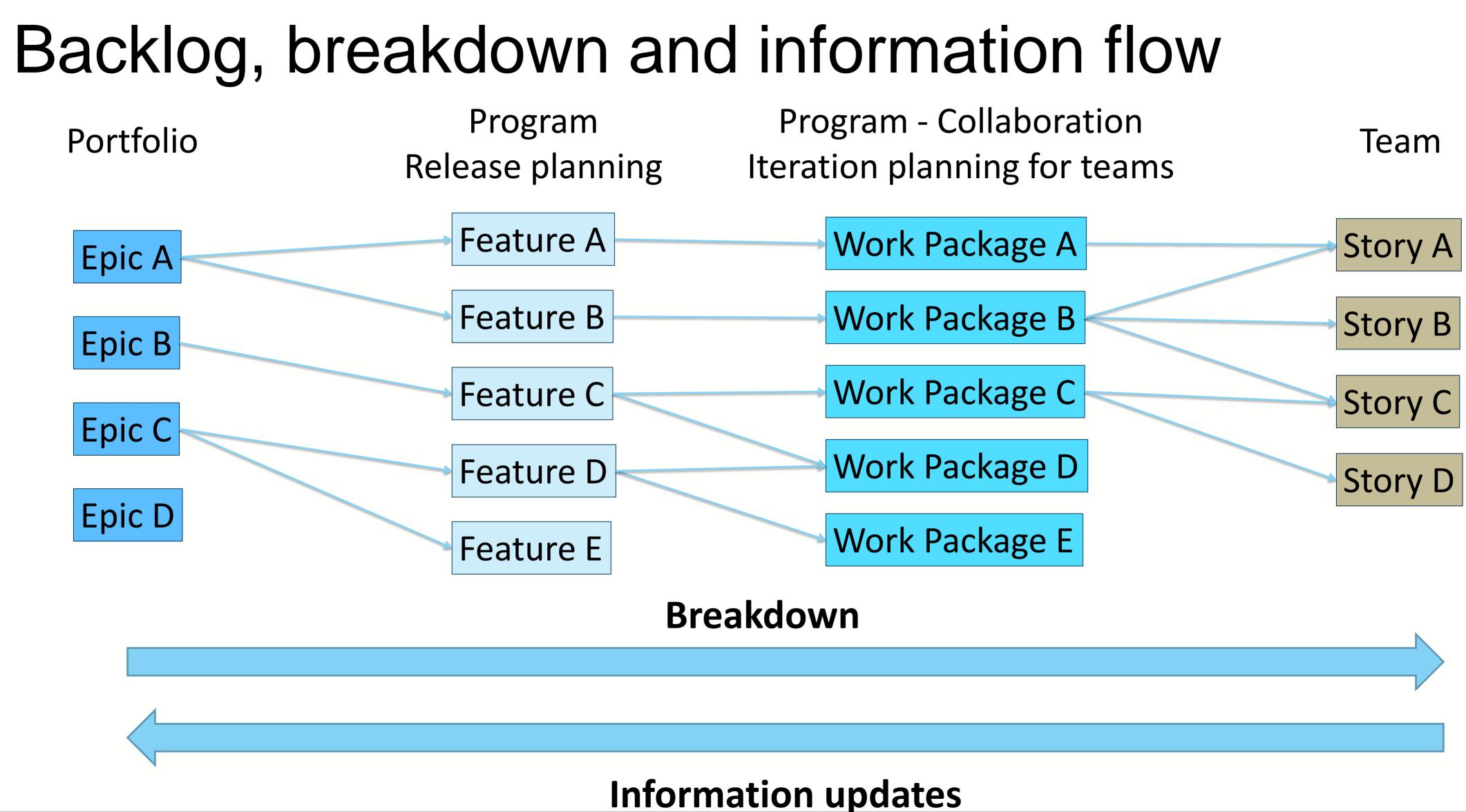




Integration elements "A team can implement

this in one sprint"

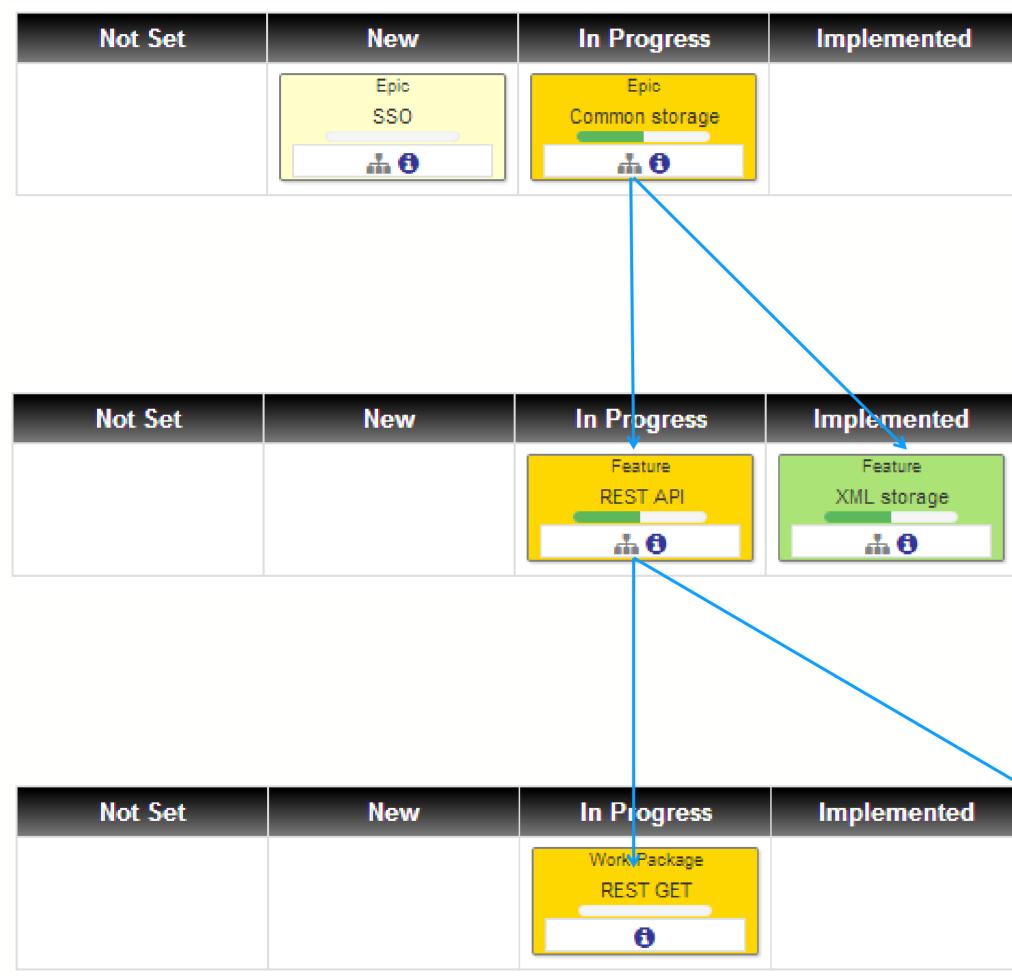




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Backlog, breakdown and information aggregation





Done	Reopened	Deferred	Rejected

Done	Reopened	Deferred	Rejected		

Done	Reopened	Deferred	Rejected		
Work Package					
Define REST					
6					



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Backlog, breakdown and information aggregation

Not Set	New	In Progress	Implemented	Done	Reopened	Deferred	Rejected
	Epic SSO		Epic Common storage				
							
Not Set	New	In Progress	Implemented	Done	Reopened	Deferred	Rejected
			Feature REST API Feature XML storage				
			# 0				
Not Set	New	In Progress	Implemented	Done	Reopened	Deferred	Rejected
			Work Package REST GET	Work Package Define REST			

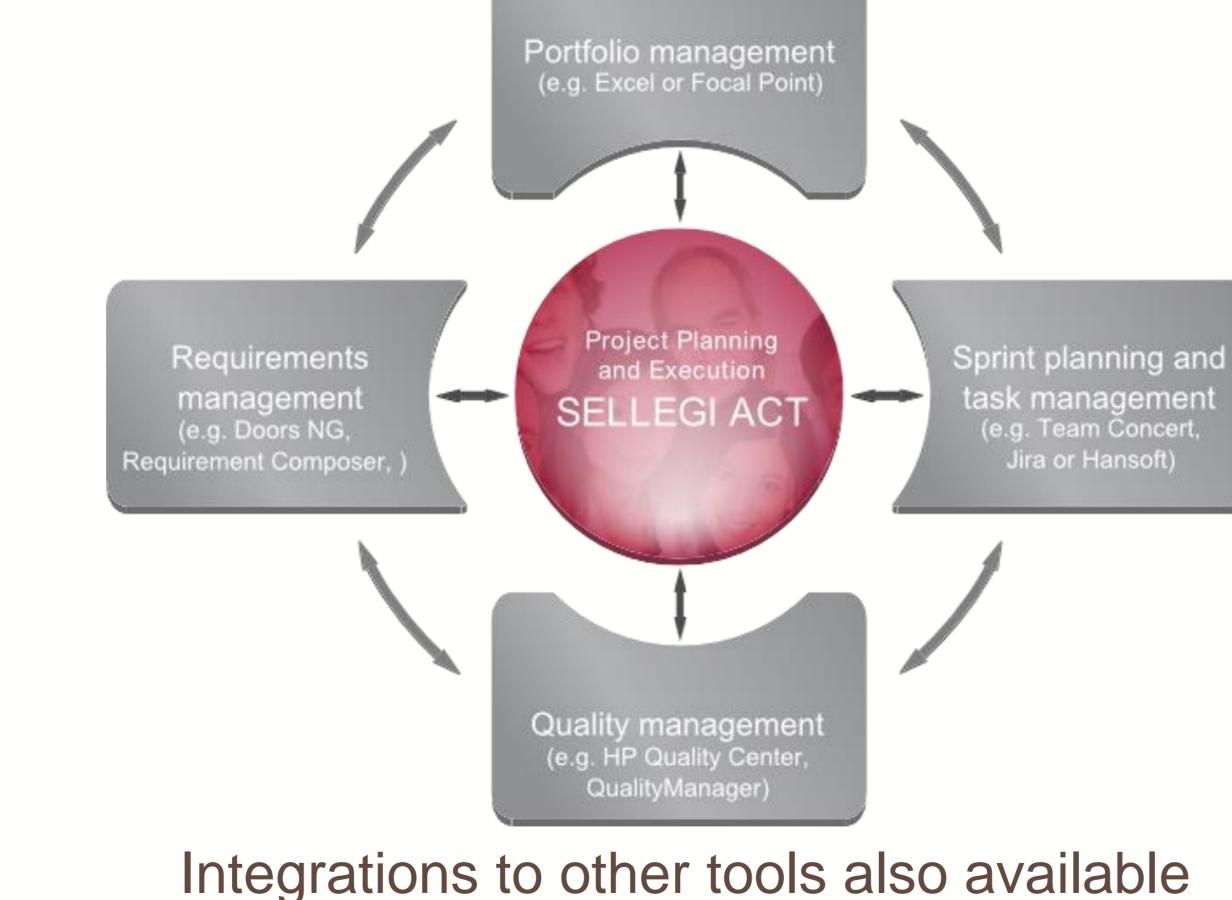
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Semantic Integration with Sellegi ACT



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CONSISTENT PRIORITIZATION







Prioritization and Cost of Delay

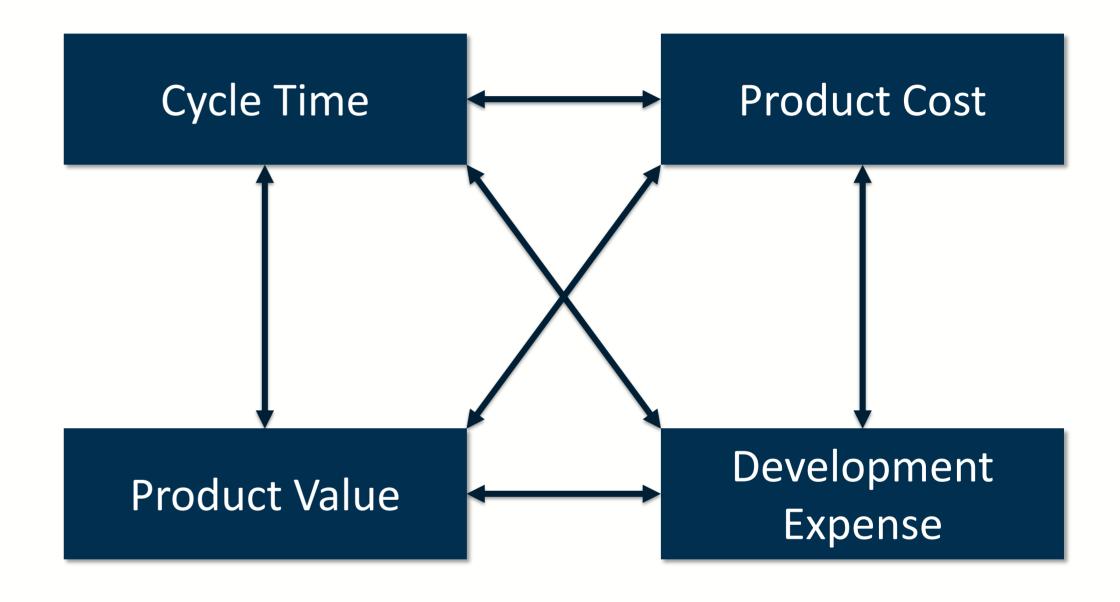
"Developers measure development cycle time and seek to make it shorter. However, when you ask them how much life-cycle profit will decrease due to a week of delay they don't know"

"If you only quantify one thing, quantify the cost of delay"

Don Reinertsen, The Principles of Product Development Flow



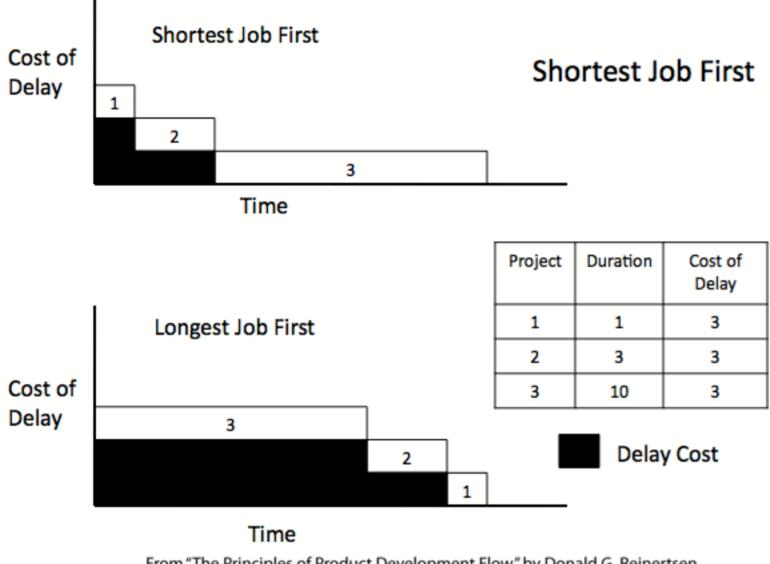




Risk



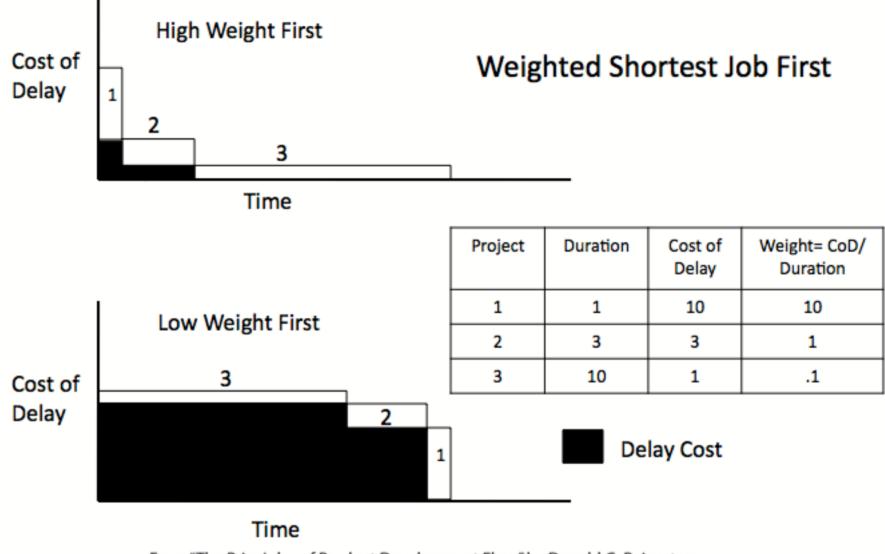
Prioritize fastest delivery of **business value** with WSJF



From "The Principles of Product Development Flow," by Donald G. Reinertsen. Celeritas Publishing: 2009. Copyright 2009, Donald G. Reinertsen

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Cost of Delay / WSJF according to SAFe

Suggestion: Use the relative fibonacci scale for each variable

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WSJF =

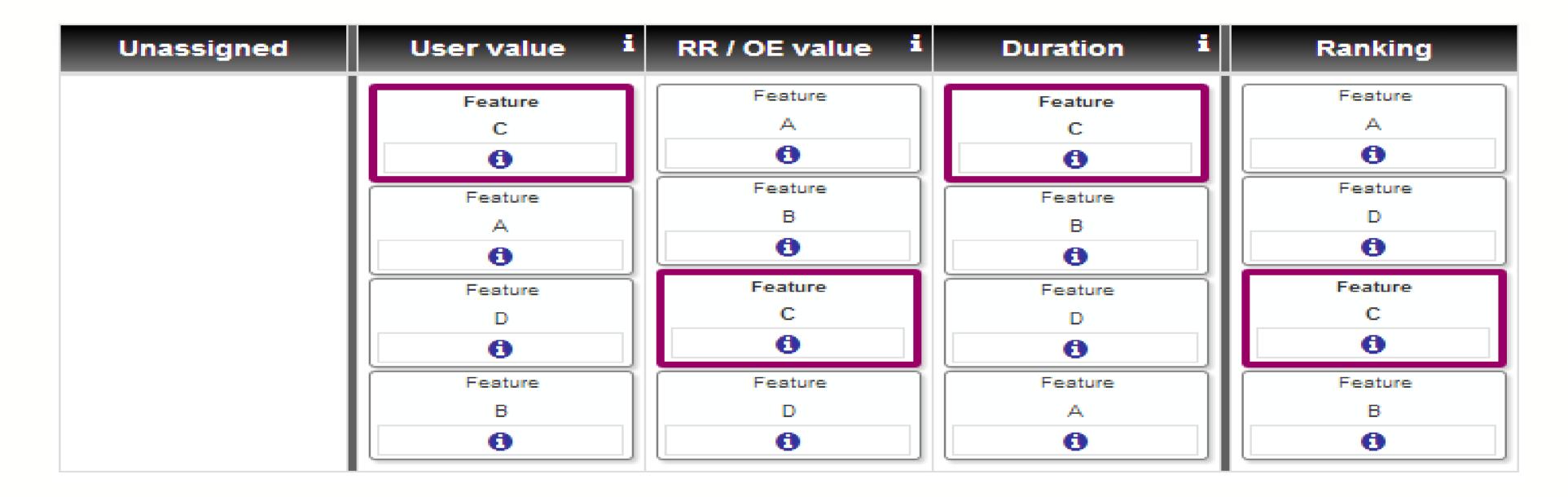


User | Business Value + Time Criticality + RR | OE Value

Job Size



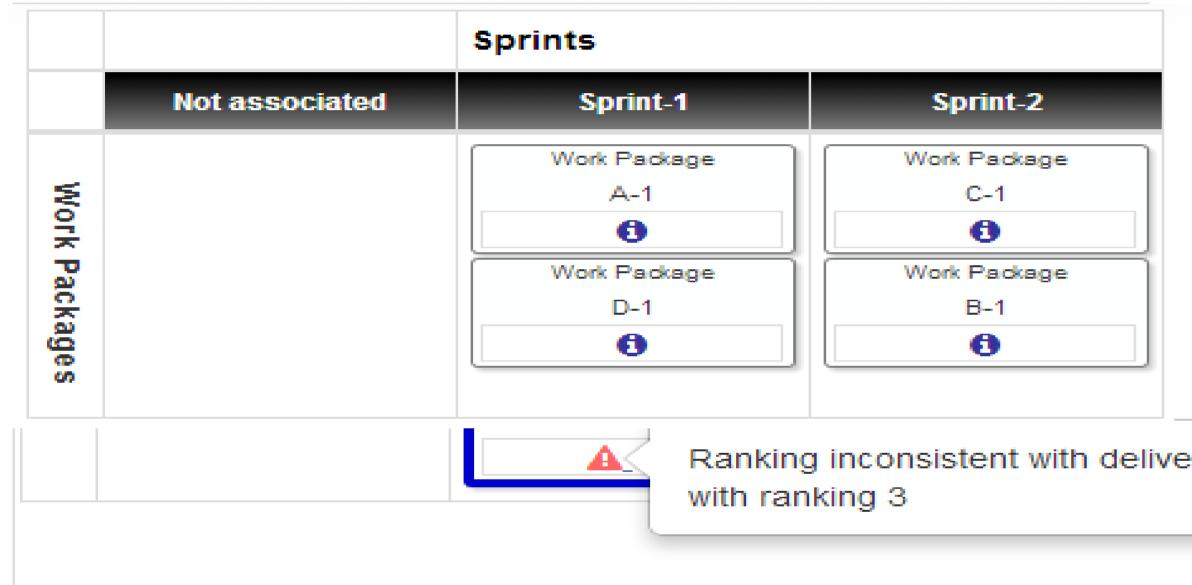
Interconnected backlogs part 1: WSJF feature prioritization



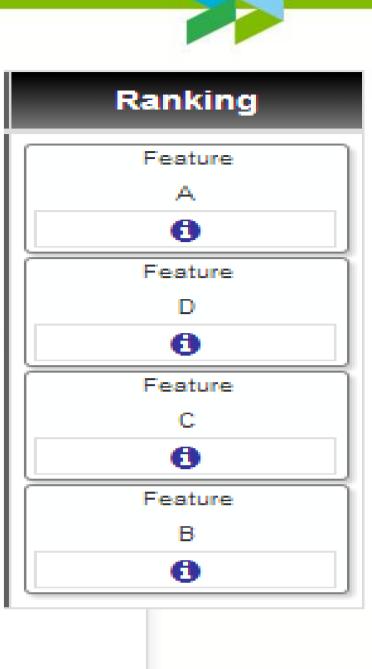




Interconnected backlogs part 2: WSJF prioritization effects on team planning







Ranking inconsistent with delivery: Feature "B" with ranking 4 is delivered before Feature "C"



Scaling agile has two main challenges

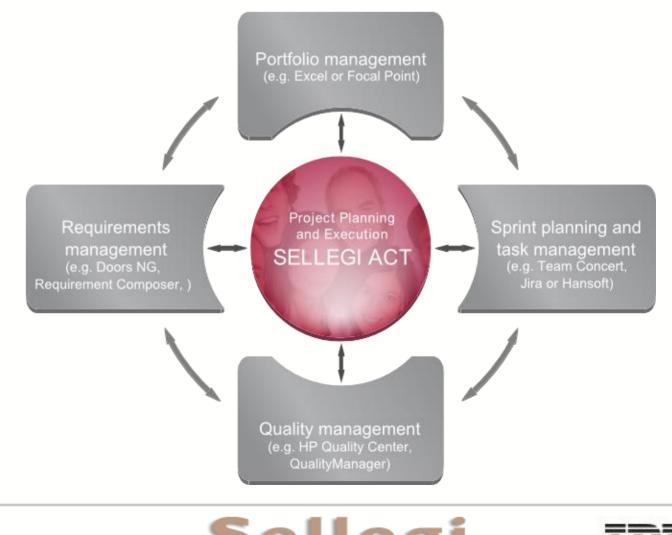
You can scale from scratch or you can use an establised standard

- SAFe is a proven, public facing collection of best practices
- SAFe relies heavily on transparency, information breakdown and connected backlogs
- Use regular prioritizations to reflect on new information
- If you quantify one thing, quantify the Cost of Delay



Transparency with real-time Insight

- Quick decisions have to be fact-based
- Facts have to be available in real-time
- Integrated information with traceability between all levels



References

- Rational's SAFe Transformation DevOps Blogs on jazz.net: \bullet https://jazz.net/blog/index.php/author/asilber/?tag=DevOps
- Scaled Agile Framework: <u>scaledagileframework.com</u> lacksquare
- Don Reinertsen: "The Principles of Product Development Flow" \bullet
- Backlog prioritization with Sellegi ACT: <u>http://sellegi-act.com</u>



