



For EA Users By EA Users

# SAFe Agile Architecture Toolkit for Sparx

Introducing SAFe, a practical approach towards agile architecture, the importance of modeling and tool support, and how Sparx can realize this via an MDG

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#### Agenda



#### 1. SAFe

- Agile Architecture
- Modeling and Tool Support

#### 2. SAFe Agile Architecture Toolkit for Sparx

- Overview
- Aligning architecture with business value
- Developing Solution Vision, Solution Intent, and Roadmaps
- Supporting Program Increment (PI) planning and execution
- Supporting new Strategic Themes and Value Streams

#### 3. Next Steps

- Toolkit
- Enterprise Architecture

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# **SAFe**

SAFe Agile Architecture Toolkit for Sparx



# Scaled Agile Framework (SAFe)



"SAFe® for Lean Enterprises is a knowledge base of proven, integrated principles, practices, and competencies for achieving business agility using Lean, Agile, and DevOps"



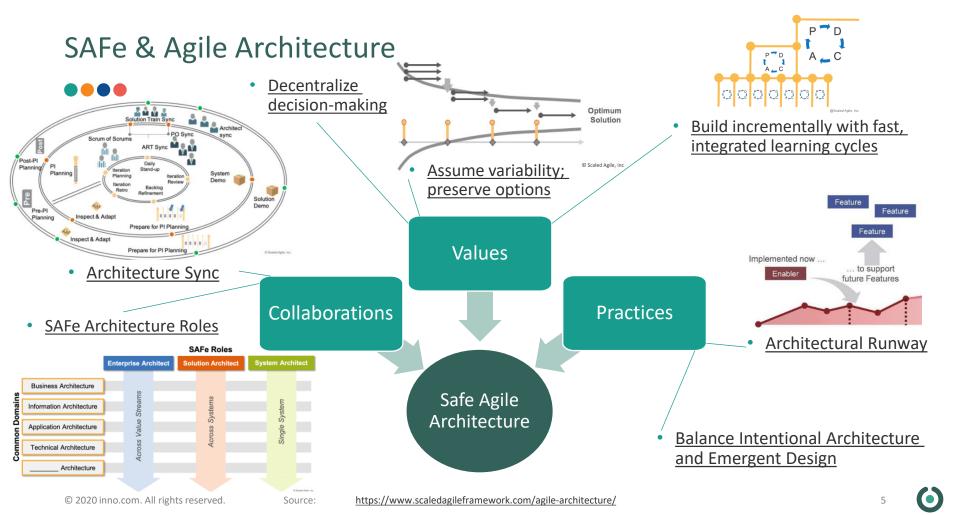
- Enterprise scope
- Configurations (Essential, Portfolio, Large Solution, Full)

- Lean
- Agile
- DevOps

- v5.0 (January 2020)
- Commercial
- Training
- Certification
- Publications
- Conferences

- Scaled Agile, Inc.
- 350+ Partners
- Contributors
- Community Platform





## **Modeling and Tool Support**





Keep options open with fixed and variable Solution Intent

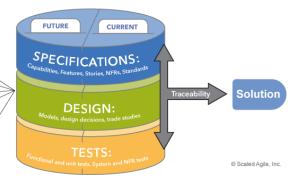
Collaboratively develop the Solution Intent

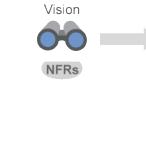
Connect Solution Intents across the supply chain

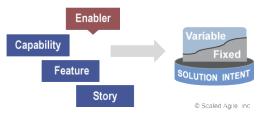
Create minimal, but sufficient documentation

"Favoring models over documents"

"When in doubt, model it out"



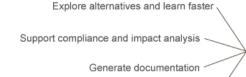




<u>Developing Solution Intent</u>

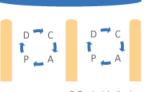
"Solution Intent evolves through collaboration"

"Keep Options Open with Fixed and Variable Solution Intent"



Build model quality in

**Model-Based Systems Engineering** 

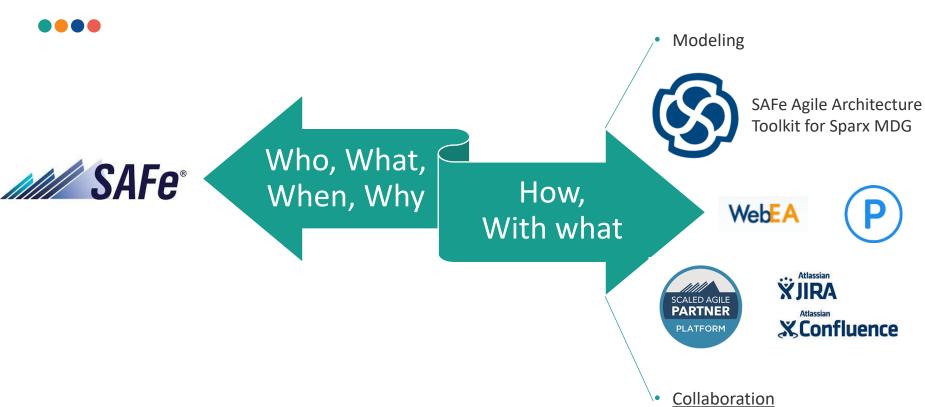


**MBSE** 

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# Modeling and Tool Support (2)



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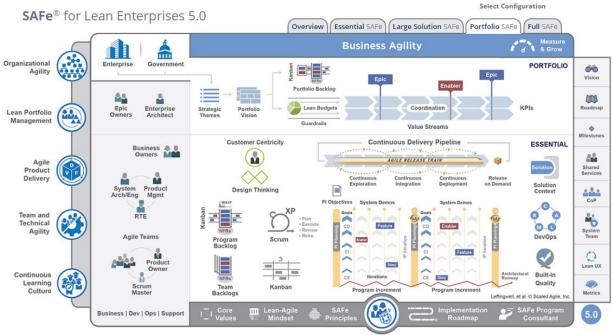
# SAFe Agile Architecture Toolkit for Sparx

SAFe Agile Architecture Toolkit for Sparx

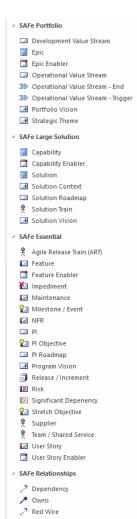


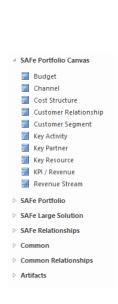
#### Overview





Lean-Agile Leadership

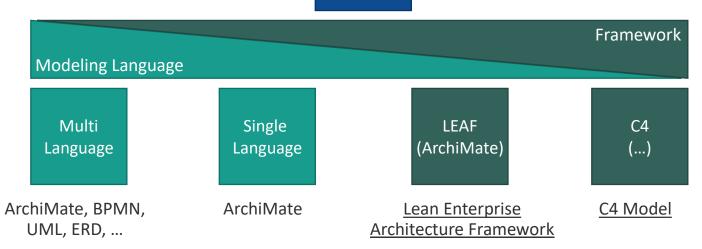




# Overview (2)



SAFe Toolkit (MDG)

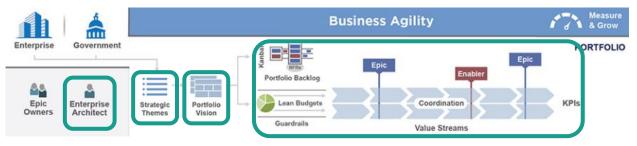


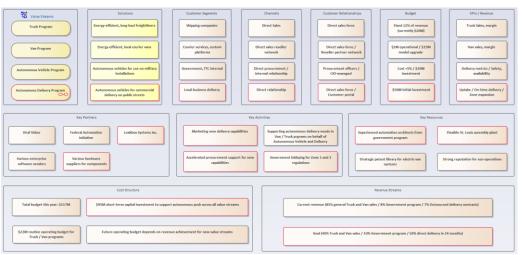
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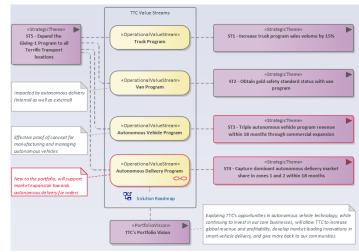


## Aligning architecture with business value



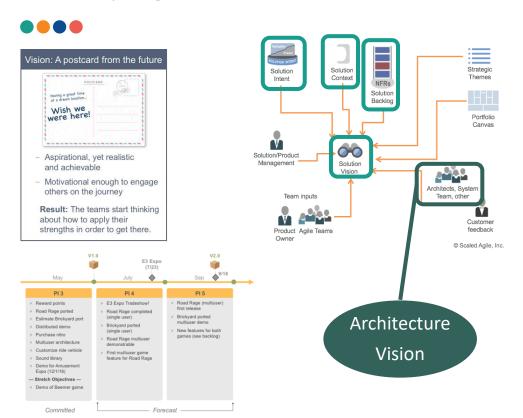






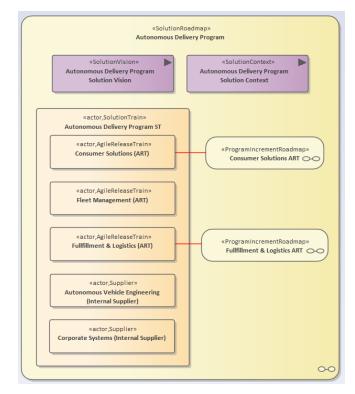


# Developing Solution Vision, Solution Intent, and Roadmaps



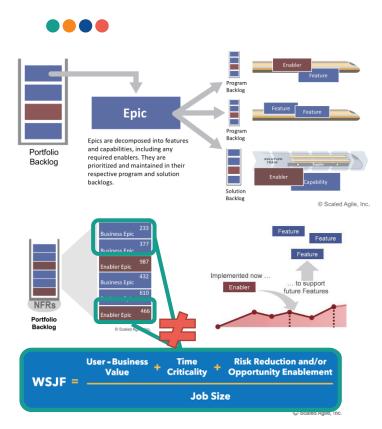
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Source:



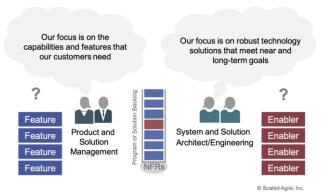


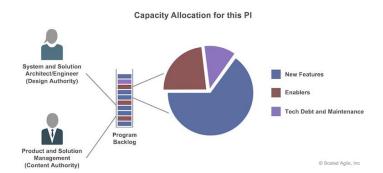
## Supporting Program Increment (PI) planning and execution



Agile Architecture

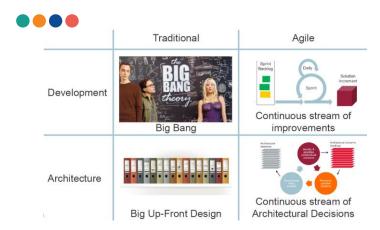
- ROAM
  - Resolved
  - **O**wned
  - Accepted
  - **M**itigated

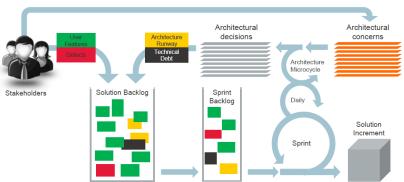






## A practical approach towards Agile Architecture – RCDA





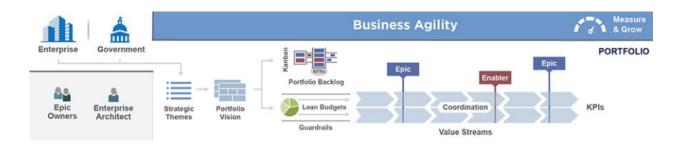


#### SAFe: Lean Agile principles & RCDA

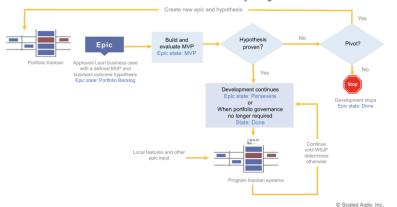
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ost-Driven Architecture	Risk- and Co	Take an economic view	1.
e Solution is a System	Th	Apply systems thinking	2.
Minimal Architecture	าร	Assume variability; preserve option	3.
Architecture Microcycle	d learning cycles	Build incrementally; fast, integrate	4.
chitectural Prototyping	uation of working Ar	Base milestones on objective eva	5.
st Enough Anticipation	e queue length Ju	Limit WIP, reduce batches, manag	6.
nitecture Roadmapping	main planning Arch	Apply cadence, sync with cross-d	7.
Architecture is	nowledge workers	Unlock the intrinsic motivation of k	8.
Team Work		Decentralize decision-making	9.

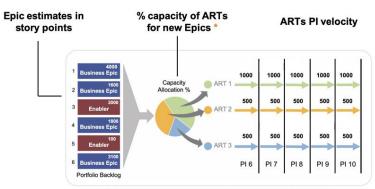
### Supporting new Strategic Themes and Value Streams





#### **SAFe Lean Startup Cycle**





\* % of capacity for Epics may be different for each Value Stream

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# **Next Steps**

SAFe Agile Architecture Toolkit for Sparx



### **Next Steps**



Toolkit 1.0

Workshop?

Enterprise Architecture

