



AGILITY & COSMIC FUNCTION POINTS IN SAFe

(Scaled Agile Framework for Enterprise)

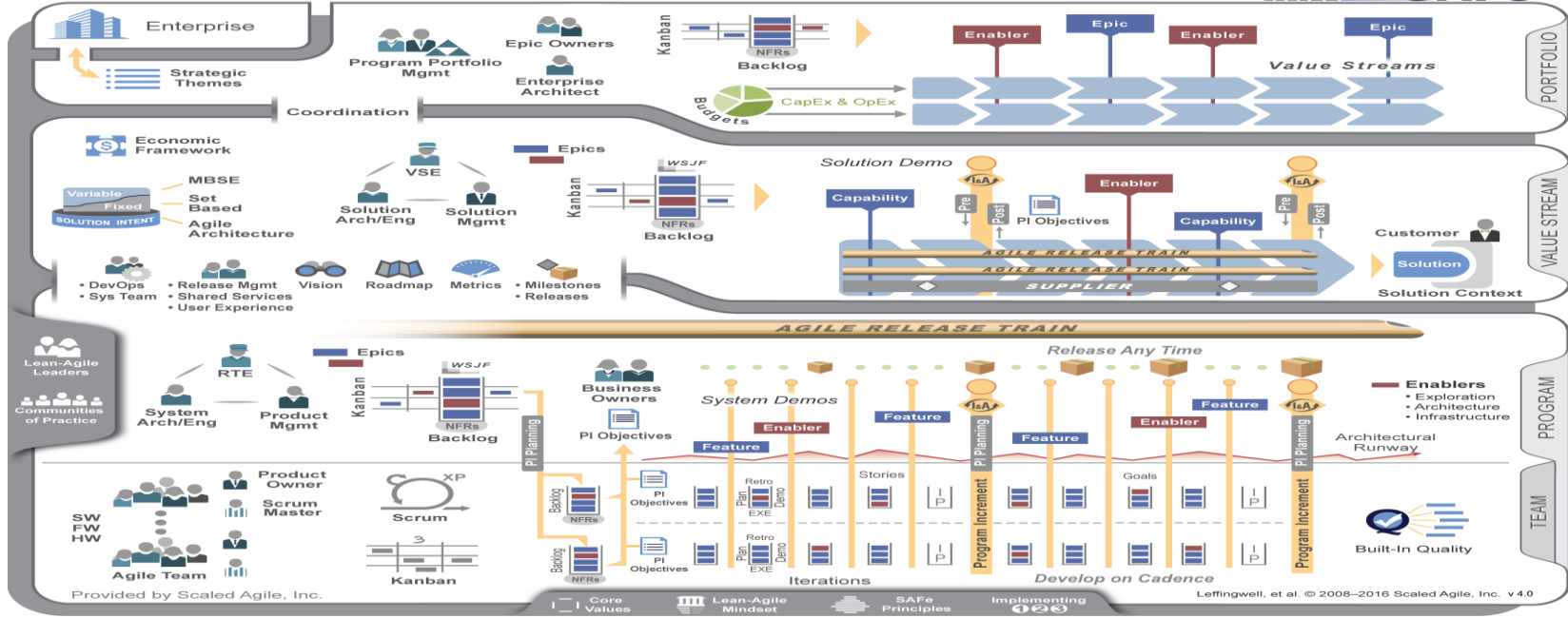
Saadia Ait

Adapted & Translated by Alain Abran

COSMIC & SAFe framework:

1. COSMIC & 'Team' SAFe
2. COSMIC & 'Program' SAFe
3. COSMIC & 'Value Stream' SAFe
4. COSMIC & 'Portfolio' SAFe

SAFe® 4.0 for Lean Software and Systems Engineering

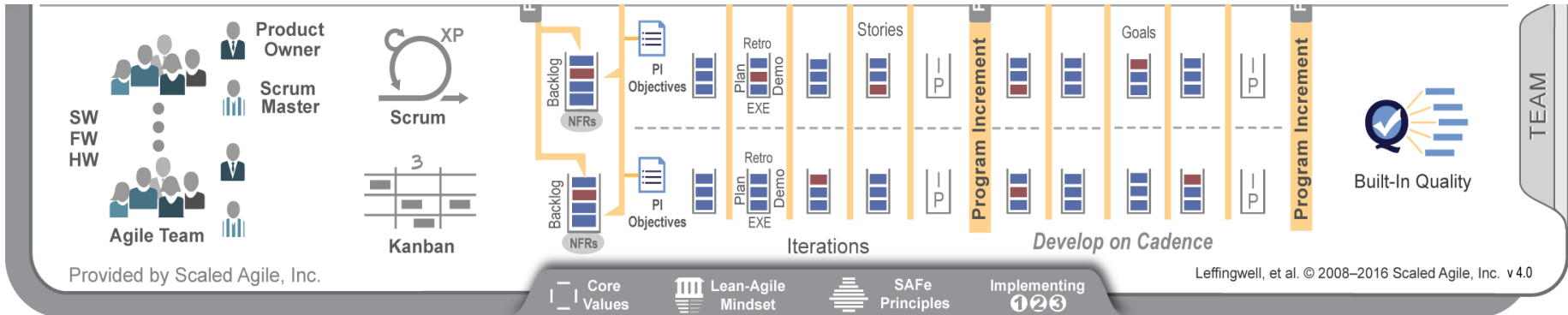


COSMIC & SAFe framework:

1. **COSMIC & 'Team' SAFe**
2. COSMIC & 'Program' SAFe
3. COSMIC & 'Value Stream' SAFe
4. COSMIC & 'Portfolio' SAFe

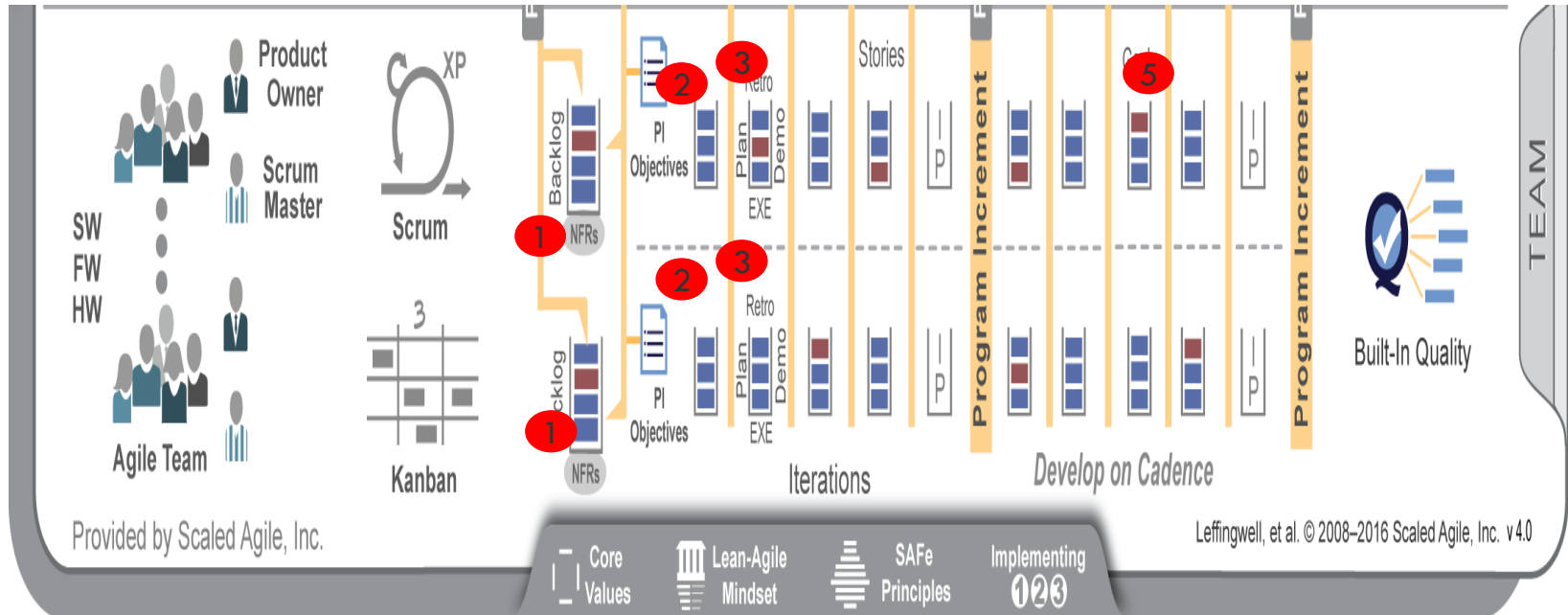
SAFe team level

5



COSMIC & SAFe team level

- 1 For each User Story – US (user need)
- 2 Estimate Effort with COSMIC
- 3 Update agile artefacts
- 4 Analyze agile events with hard numbers
- 5 Update project KPI & communicate (PCO)

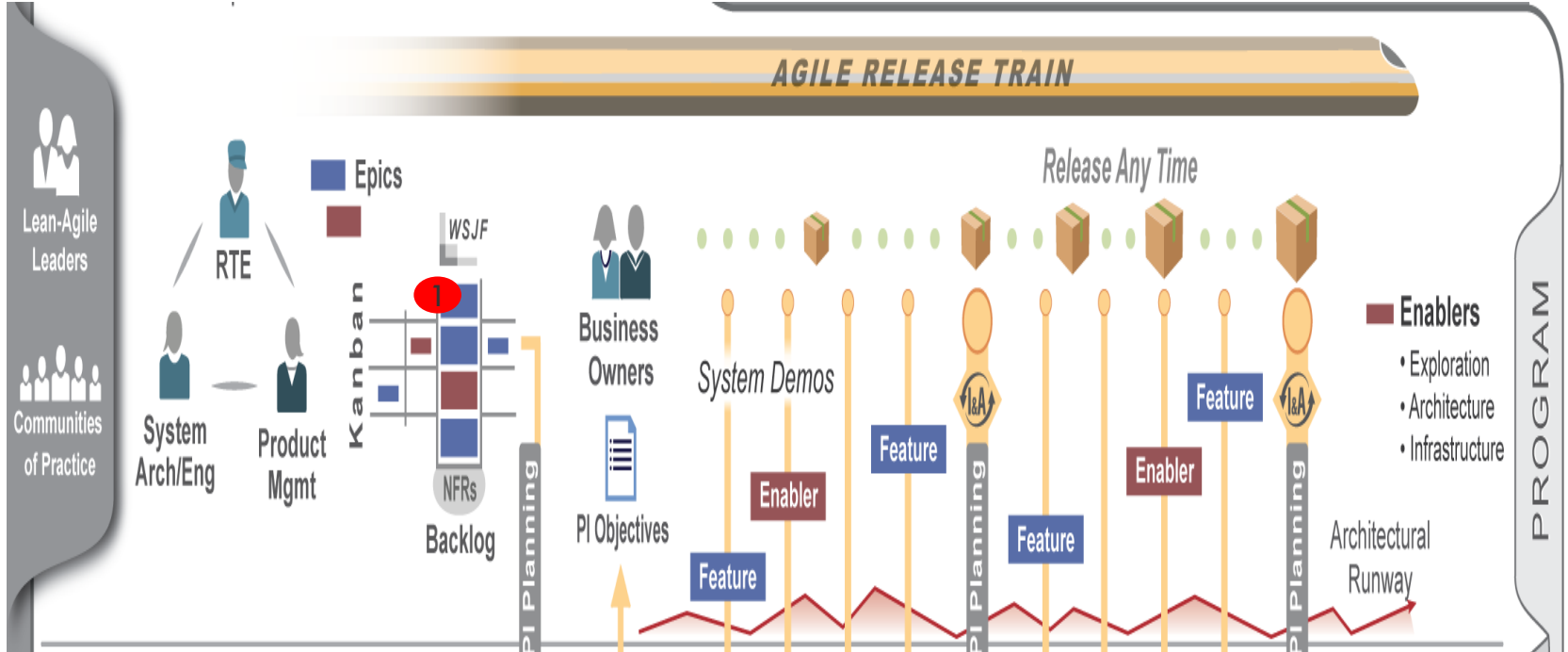


COSMIC & SAFe framework:

1. COSMIC & 'Team' SAFe
2. **COSMIC & 'Program' SAFe**
3. COSMIC & 'Value Stream' SAFe
4. COSMIC & 'Portfolio' SAFe

COSMIC & SAFe Program level

8

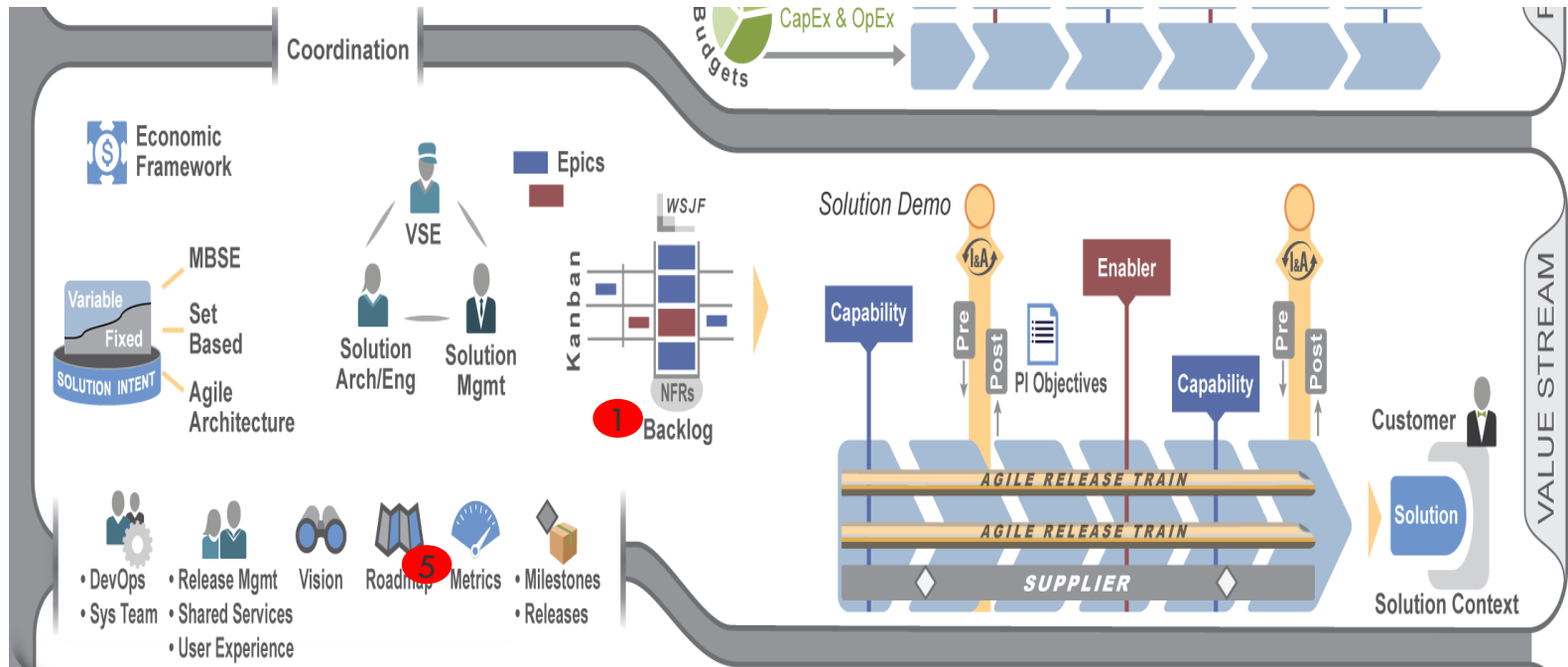


COSMIC & SAFe framework:

1. COSMIC & 'Team' SAFe
2. COSMIC & 'Program' SAFe
3. **COSMIC & 'Value Stream' SAFe**
4. COSMIC & 'Portfolio' SAFe

COSMIC & SAFe Value stream

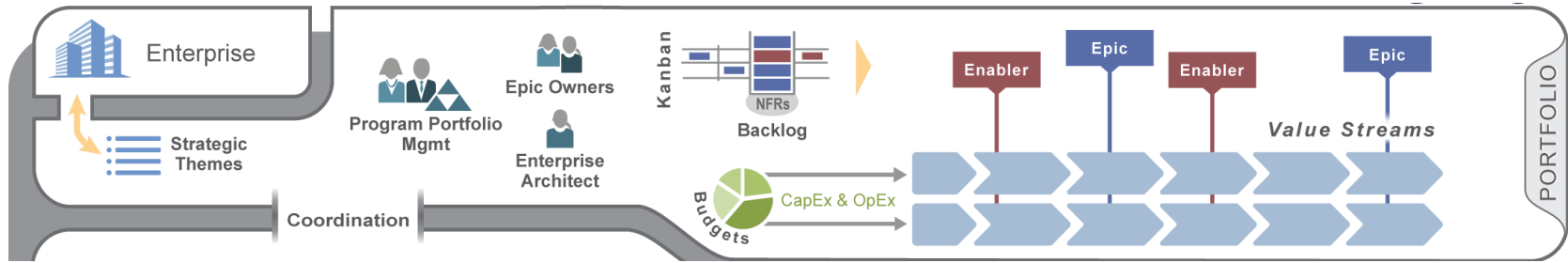
10



COSMIC & SAFe framework:

1. COSMIC & 'Team' SAFe
2. COSMIC & 'Program' SAFe
3. COSMIC & 'Value Stream' SAFe
4. **COSMIC & 'Portfolio' SAFe**

COSMIC & SAFe Portfolio level



Leffingwell et al. ©2008-2016 Scaled Agile Inc. V 4.0

COSMIC-based productivity models can be one of the enablers

Questions?

Alain Abran alain.abran@etsmtl.ca

COSMIC Legend on SAFe diagram

14

- 1 **For each User Story – US (user need):**
 - Identify COSMIC Entries, Exits, reads & Writes
 - Size with COSMIC Function Points (CFP)
- 2 **Estimate Effort with COSMIC:**
 - Select relevant COSMIC productivity model for project or iteration
 - Estimate Effort with COSMIC (E)
- 3 **Update agile artefacts :**
 - Burndown Chart: Actual VS planned size - every day
 - Velocity diagram: at end of iteration, update actual COSMIC Function Points (CFP) and compare with planned CFP
- 4 **Analyze agile events with hard numbers:**
 - In 'review' & 'retrospective' agile events, get iteration facts, including up to date 'burndown chart'
 - Discuss findings
- 5 **Update project KPI and communicate (PCO):**
 - Will depend on selected analysis methods.

COSMIC Legend on SAFe diagram

15

- 1 For each User Story – US (user need)
- 2 Estimate Effort with COSMIC
- 3 Update agile artefacts
- 4 Analyze agile events with hard numbers
- 5 Update project KPI & communicate (PCO)