# The Principles of the Agile Manifesto

- 1. Our highest priority is to satisfy the customer through early and continuous delivery of valuable software.
- 2. Welcome changing requirements, even late in development. Agile processes harness change for the customer's competitive advantage.
- 3. Deliver working software frequently, from a couple of weeks to a couple of months, with a preference for the shorter timescale.
- 4. Business people and developers must work together daily throughout the project.
- 5. Build projects around motivated individuals. Give them the environment and support they need, and trust them to get the job done.
- 6. The most efficient and effective method of conveying information to and within a development team is face-to-face conversation.
- 7. Working software is the primary measure of progress.
- 8. Agile processes promote sustainable development. The sponsors, developers, and users should be able to maintain a constant pace indefinitely.
- 9. Continuous attention to technical excellence and good design enhances agility.
- 10. Simplicity the art of maximizing the amount of work not done is essential.
- 11. The best architectures, requirements, and designs emerge from self-organizing teams.
- 12. At regular intervals, the team reflects on how to become more effective, then tunes and adjusts its behavior accordingly.

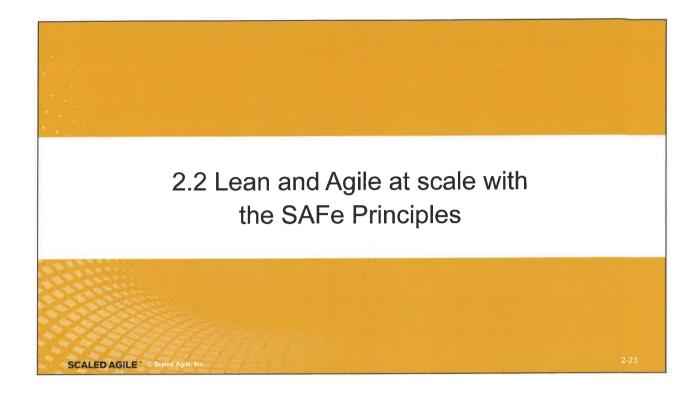
Source: Principles behind the Agile Manifesto: https://agilemanifesto.org/principles.html

# The Principles of the Agile Manifesto

Pri	inciples	Works as is	Not Applicable	Requires rethinking at scale
1.	Our highest priority is to satisfy the customer through early and continuous delivery of valuable software.	0	0	0
2.	Welcome changing requirements, even late in development. Agile processes harness change for the customer's competitive advantage.	0	0	0
3.	Deliver working software frequently, from a couple of weeks to a couple of months, with a preference for the shorter timescale.	0	0	0
4.	Business people and developers must work together daily throughout the project.	0	0	0
5.	Build projects around motivated individuals. Give them the environment and support they need, and trust them to get the job done.	0	0	0
6.	The most efficient and effective method of conveying information to and within a development team is face-to-face conversation.	0	0	0
7.	Working software is the primary measure of progress.	0	0	0
8.	Agile processes promote sustainable development. The sponsors, developers, and users should be able to maintain a constant pace indefinitely.	0	0	0
9.	Continuous attention to technical excellence and good design enhances agility.	0	0	0
10.	Simplicity—the art of maximizing the amount of work not done—is essential.	0	0	0
11.	The best architectures, requirements, and designs emerge from self-organizing teams.	0	0	0
12.	At regular intervals, the team reflects on how to become more effective, then tunes and adjusts its behavior accordingly.	0	0	0

### Notes

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# SAFe Lean-Agile Principles

#1 Take an economic view

#2 Apply systems thinking

#3 Assume variability; preserve options

#4 Build incrementally with fast, integrated learning cycles

#5 Base milestones on objective evaluation of working systems

#6 Visualize and limit WIP, reduce batch sizes, and manage queue lengths

#7Apply cadence, synchronize with cross-domain planning

#8 Unlock the intrinsic motivation of knowledge workers

#9 Decentralize decision-making

#10 Organize around value

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# Why focus on the principles?

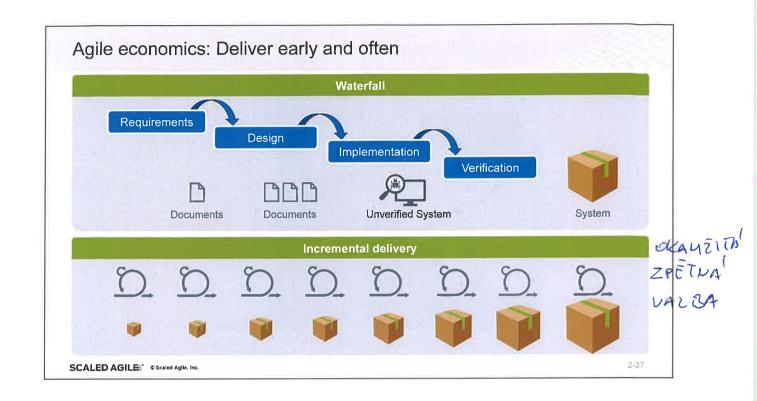
A common disease that afflicts management the world over is the impression that "Our problems are different." They are different to be sure, but the principles that will help to improve the quality of products and services are universal in nature.

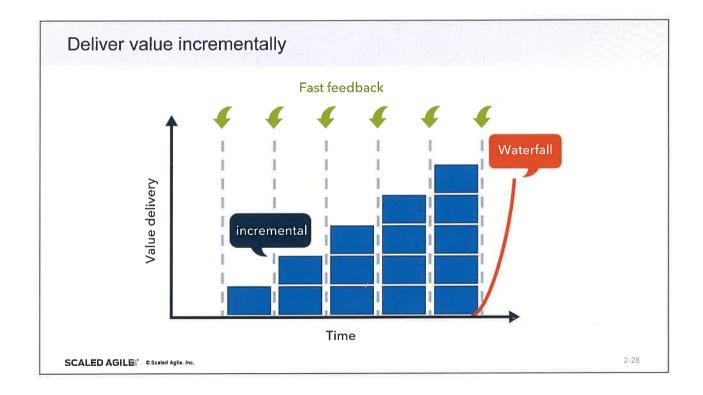
- -W. Edwards Deming
- ▶ A Lean-Agile transformation will deliver substantial benefits
- ▶ However, it is a significant change, and every implementation is different
- ► Leaders should understand why the practices work; it's part of 'knowing what it is they must do'
- ▶ If a practice needs to change, understanding the principles will assure the change moves the Enterprise in the right direction

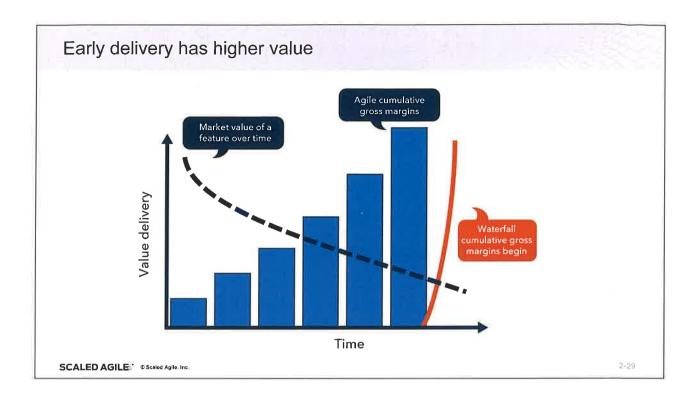
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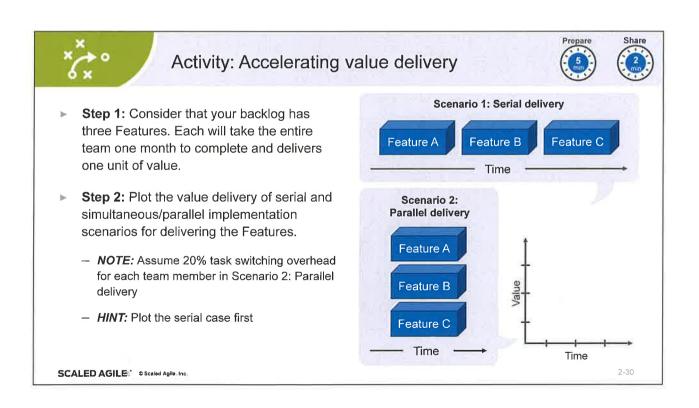
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# #1 Take an economic view SCALED AGILE: © Scaled Agills, Inc.









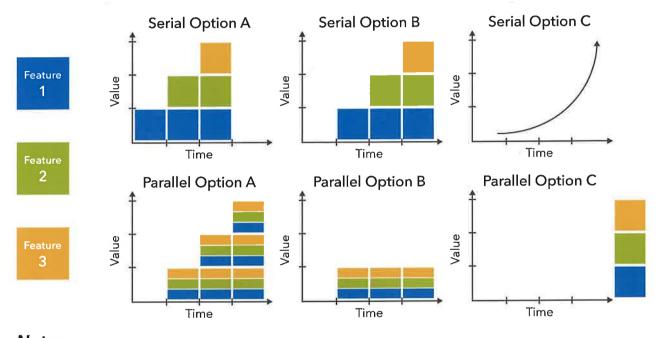
# **Agile Manifesto Principles at Scale**

**Instructions:** In your groups, discuss the graphs for the serial and parallel approaches. Be prepared to discuss with the class. Consider these questions:

For the serial approach, which graph is correct?

For the parallel approach, which graph is correct?

Which approach will deliver more value?



Notes

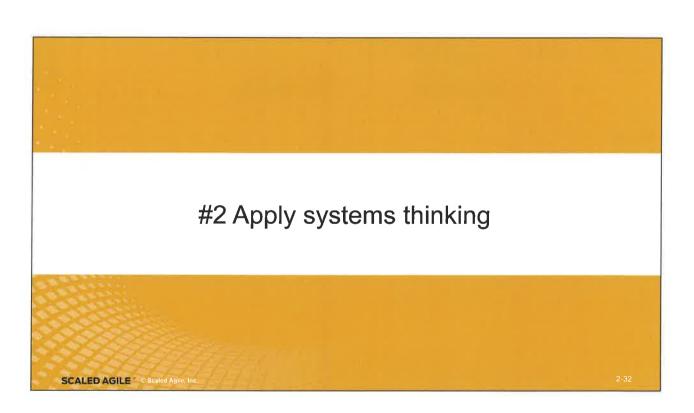
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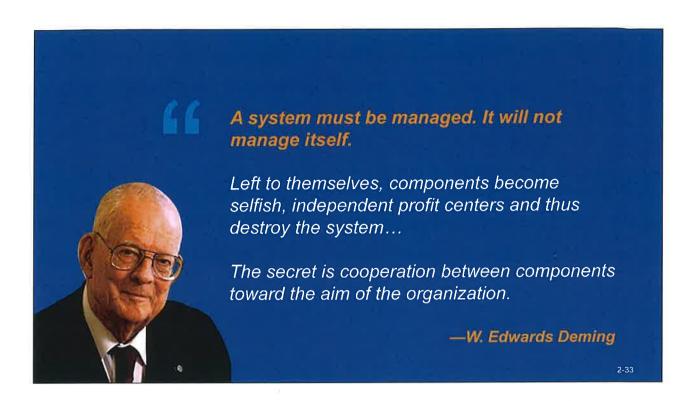
# Solution economic trade-offs Understanding trade-off parameters: ► Sequence jobs for maximum benefit ► Do not consider money already spent ► Make economic choices continuously ► Empower local decision making ► If you only quantify one thing, quantify the cost of delay Risk

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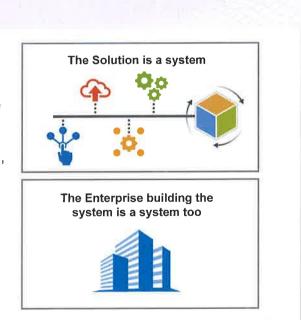


# Attributes of systems thinking

The Solution and the Enterprise are both affected by the following:

- Optimizing a component does not optimize the system
- ► For the system to behave well as a system, a higher-level understanding of behavior and architecture is required
- ► The value of a system passes through its interconnections
- ► A system can evolve no faster than its slowest integration point

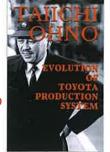
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## Optimize the full Value Stream

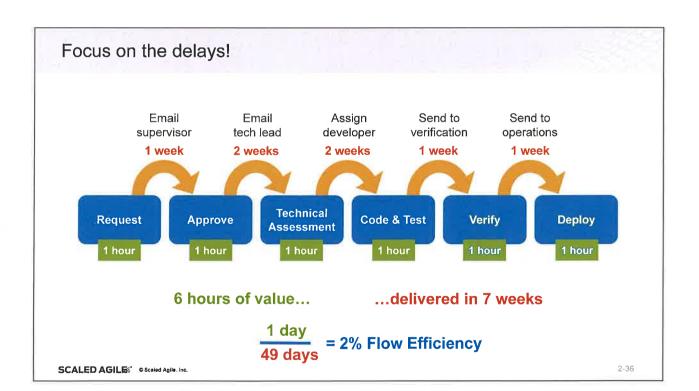
All we are doing is looking at the timeline from when the customer gives us an order to when we collect the cash. And we are reducing the timeline by reducing the non-value-added wastes.

—Taiichi Ohno



- ▶ Most problems with your process will surface as *delays*
- ▶ Most of the time spent getting to market is a result of these delays
- ▶ Reducing delays is the fastest way to reduce time to market

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# Discussion: Identifying delays





- ▶ Step 1: Identify three delays from your context and write them down.
- ▶ **Step 2:** Write down what you think might be some potential causes for the delays.
- ➤ Step 3: Consider how systems thinking relates to finding possible solutions for the delays. Who is ultimately responsible for the optimization of the full Value Stream?
- ▶ **Step 4:** Share your insights with the class.

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2-37

# #3 Assume variability; preserve options

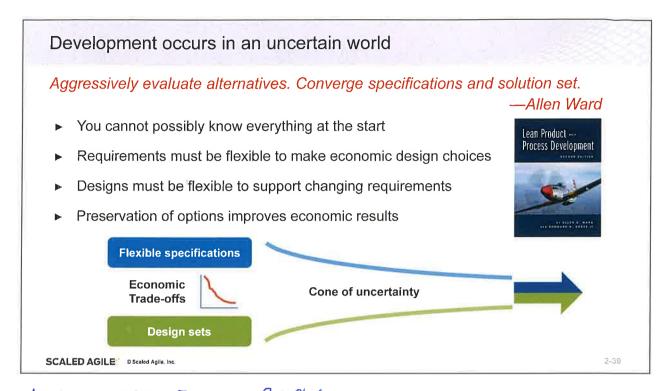
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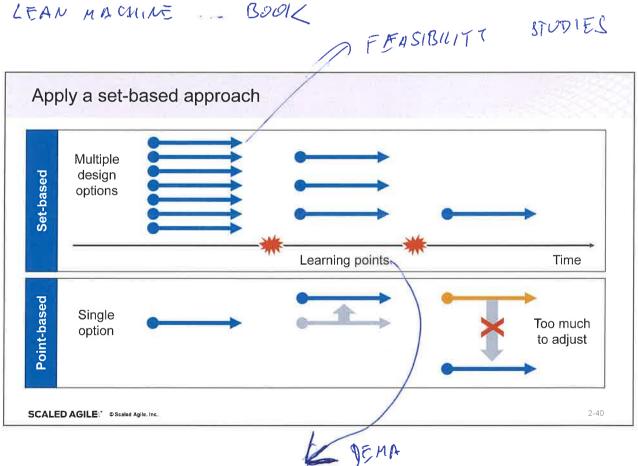
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Workbook

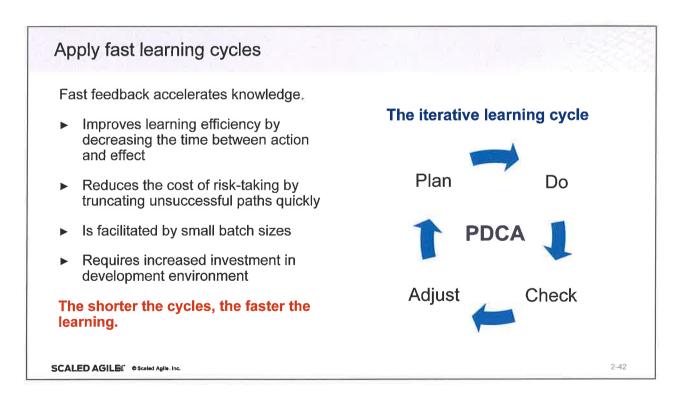
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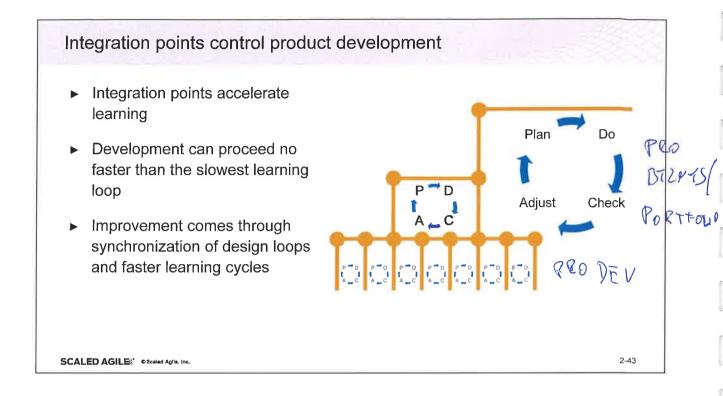
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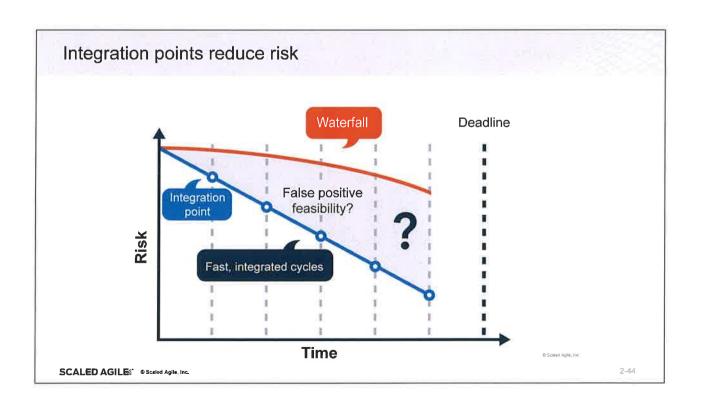


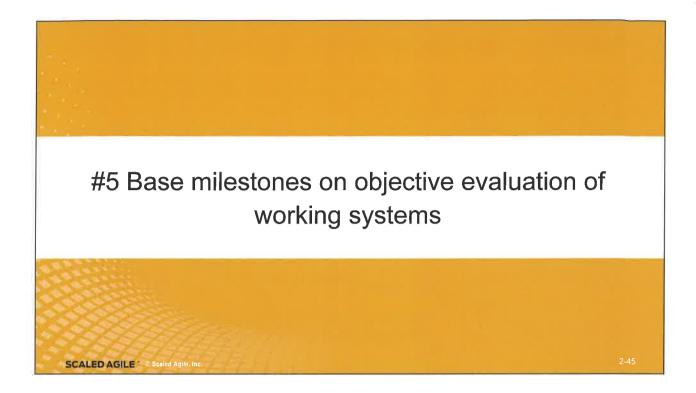








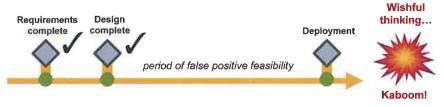




# The problem of phase-gate milestones

There was in fact no correlation between exiting phase gates on time and project success... the data suggested the inverse might be true. —Dantar Oosterwal, Lean Machine

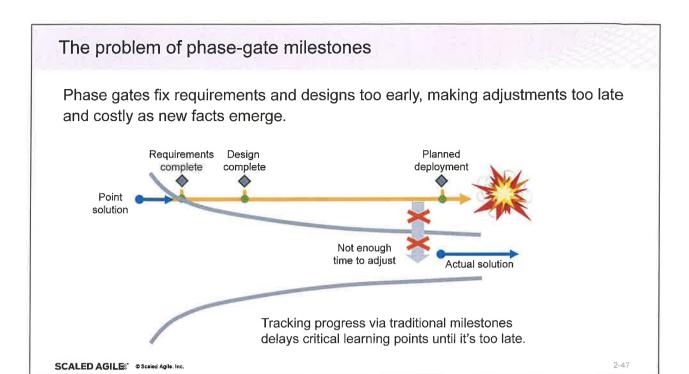
- ▶ They force design decisions too early; this encourages false-positive feasibility.
- ▶ They assume a 'point' Solution exists and can be built correctly the first time.
- ► They create huge batches and long queues, and they centralize requirements and design in program management.

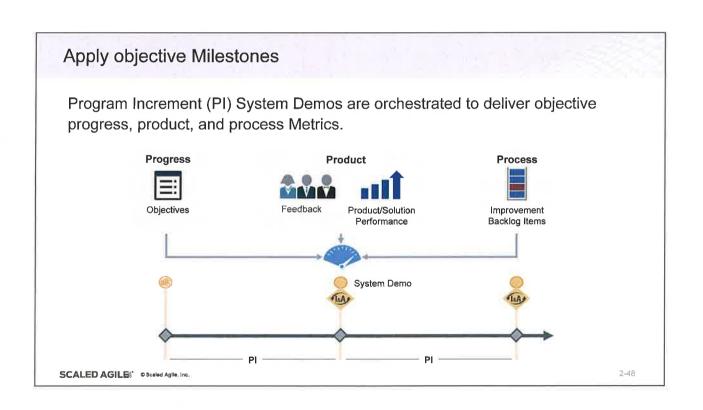


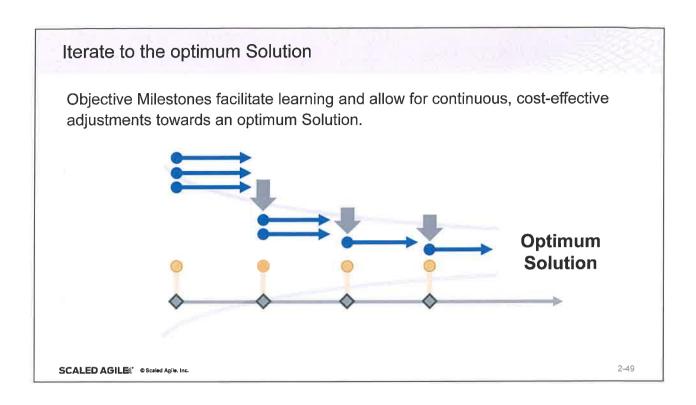
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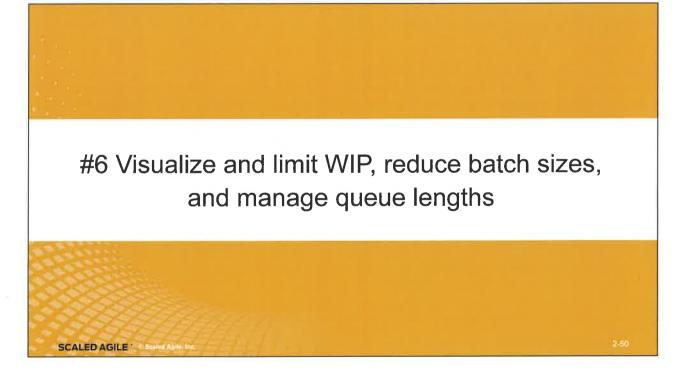
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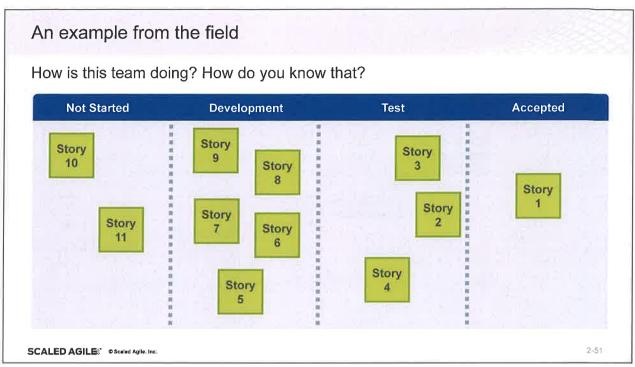




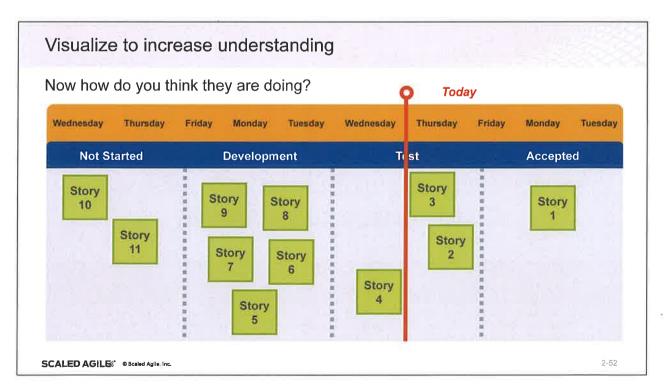




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Karyan GODED



WORKING PROGRESS CIMIT = PROPUSTNOST

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# Activity: WIP improvement opportunities



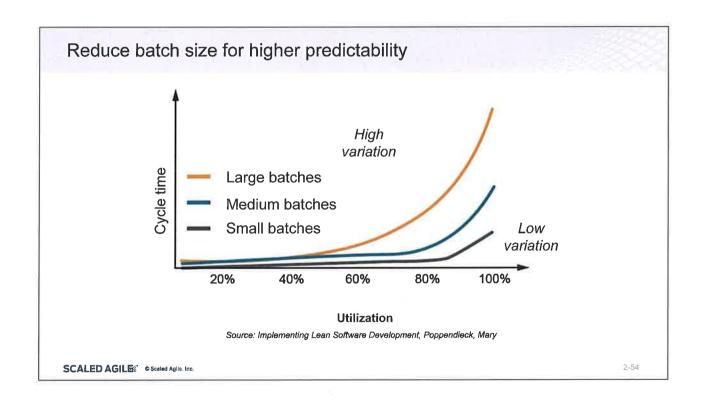
- ➤ **Step 1:** Referring to the *Team Board* example, discuss the effect of a three-story WIP constraint on Development and Test.
- ➤ Step 2: Consider this scenario: You're a developer. You just finished Story 6. What would you do if:
  - There is no WIP constraint
  - The three-Story WIP constraint is in place
- ► **Step 3:** Which scenario has the highest throughput?

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Wellianday Transfer Philay Monday Tuesday Wednesday Thursday Foday Monday Tuesday

Not Started Development Test Accepted

Story 3 Story 3 Story 3 Story 1 Story 2 Story 2 Story 2 Story 3 Story 2 Story 3 Stor



# SDICE MU BOLEST DE POLOVIENT:



# Activity: Experience a large batch size



- ▶ **Step 1:** Create groups of five people with 10 coins per group. Designate one person as the timekeeper. The remaining four people will be processing the coins.
- Step 2: Person by person process each coin.
- ➤ Step 3: Pass all coins at the same time to the next person, who repeats step two until all four people are done
- ► **Step 4:** The timekeeper stops the timer and records the total time





https://bit.ly/Video-LargeBatchPart1

Optional 1:20 video demonstrating this exercise: part 1 of 3

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2-55



# Activity: Experience a small batch size



- ▶ Step 1: Ensure that the timekeeper is ready to start the timer
- ➤ **Step 2:** This time, each person processes one coin at a time and immediately passes each coin to the next person
- ➤ Step 3: The timekeeper will stop the timer when the last person flips the last coin and records the result



Optional 18 sec video demonstrating this exercise: part 2 of 3

https://bit.ly/Video-SmallBatchPart2



Optional 19 sec video demonstrating this exercise: part 3 of 3

https://bit.ly/Video-BatchOverviewPart3

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Workbook

# The importance of small batches

- Large batch sizes increase variability
- High utilization increases variability
- Severe project slippage is the most likely result



The most important batch is the handoff batch

the system faster with

lower variability

Small batches go through



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## Finding optimal batch size

Optimal batch size is an example of a U-curve optimization.

- Total costs are the sum of holding costs and transaction costs
- ► Higher transaction costs make optimal batch size bigger
- Higher holding costs make optimal batch size smaller



Items per batch

Principles of Product Development Flow, Don Reinertsen

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2-58

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PULL SYSTEM

l 69 l Workbook Scaled Agile, Inc.

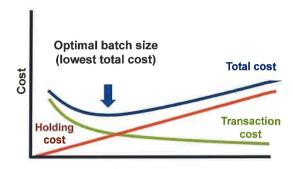
# Reducing optimal batch size $\overline{V}$



Reducing transaction costs reduces total costs and lowers optimal batch size.

- Reducing batch size:
  - Increases predictability
  - Accelerates feedback
  - Reduces rework
  - Lowers cost
- Batch size reduction probably saves twice what you would think

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Items per batch

Principles of Product Development Flow, Don Reinertsen



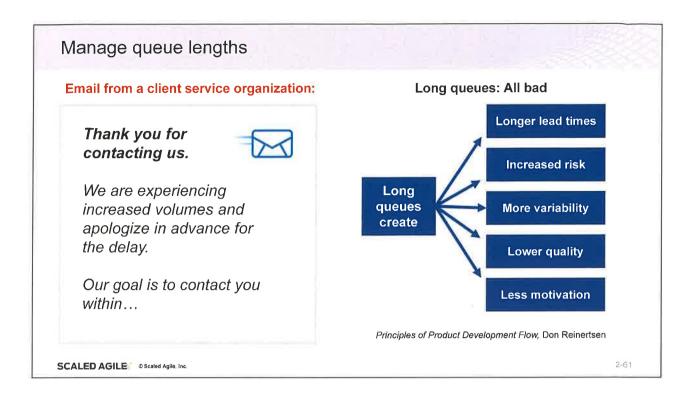
# Video: Formula 1 Pit Stops: 1950 and Today

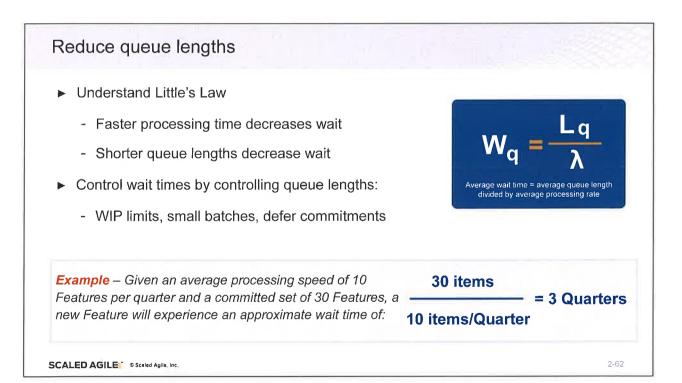




https://bit.ly/Video-Formula1PitStops

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# #7 Apply cadence, synchronize with crossdomain planning

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# Cadence and synchronization

#### Cadence

- Converts unpredictable events into predictable occurrences and lowers cost
- Makes waiting times for new work predictable
- Supports regular planning and cross-functional coordination
- Limits batch sizes to a single interval
- Controls injection of new work
- Provides scheduled integration points

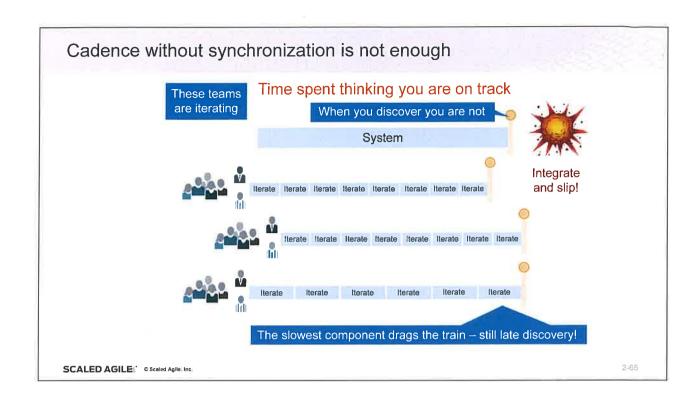
#### **Synchronization**

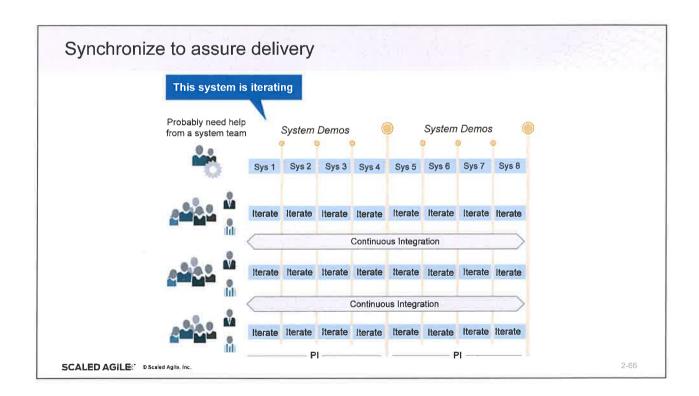
- Causes multiple events to happen simultaneously
- Facilitates cross-functional trade-offs
- Provides routine dependency management
- Supports full system integration and assessment
- Provides multiple feedback perspectives

Note: Delivering on cadence requires scope or capacity margin

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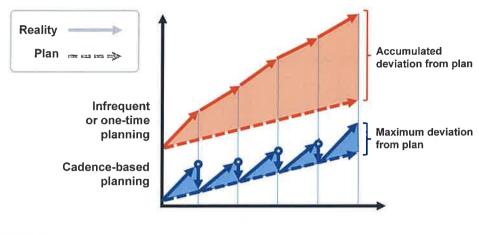
Note: To work effectively, design cycles must be synchronized





# Control variability with planning cadence

Cadence-based planning limits variability to a single interval.



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# Synchronize with cross-domain planning

Future product development tasks can't be predetermined. Distribute planning and control to those who can understand and react to the end results.

-Michael Kennedy, Product Development for the Lean Enterprise

- Everyone plans together at the same time 

  Requirements and design emerge
- Management sets the mission with minimum constraints
- Important decisions are accelerated
- Teams take responsibility for their own plans



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# #8 Unlock the intrinsic motivation of knowledge workers

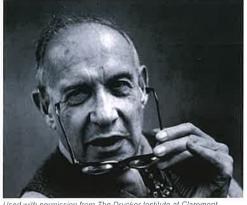
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## On managing knowledge workers

Workers are knowledge workers if they know more about the work they perform than their bosses.

—Peter Drucker



Used with permission from The Drucker Institute at Claremont Graduate University

make decisions about how to perform their work.

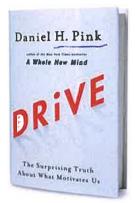
Workers themselves are most qualified to

- ▶ The workers must be heard and respected for management to lead effectively.
- Knowledge workers must manage themselves. They need autonomy.
- Continuing innovation must be part of the work, the tasks, and the responsibilities of knowledge workers.

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# Unlocking intrinsic motivation with autonomy, mastery, and purpose

- Autonomy is the desire to be self-directed and have control over what we work on, how we do our work, and who we work with
- ► *Mastery* is the urge to get better at what we do and improve our personal and team skills
- Purpose is the desire to do something that matters and has meaning



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# #9 Decentralize decision-making

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### Video: Greatness by David Marquet





https://bit.ly/Video-GreatnessMarquet

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2-73

# Decentralize decision-making

Define the economic logic behind a decision; empower others to make the changes.

#### Centralize

# Decentralize everything else

- Infrequent Not made very often and usually not urgent (Example: Internationalization strategy)
- ► Long-lasting Once made, highly unlikely to change
  - (Example: Common technology platform)
- ➤ Significant economies of scale Provide large and broad economic benefit (Example: Compensation strategy)
- ► Frequent Routine, everyday decisions (Example: Team and Program Backlog)
- ► Time critical High cost of delay (Example: Point release to Customer)
- Requires local information Specific and local technology or Customer context is required (Example: Feature criteria)

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# Activity: Decentralize decision-making





- ▶ **Step 1:** Consider three significant decisions you are currently facing. Write them in the table provided in your workbook.
- ▶ **Step 2:** Rate each decision based on the frequency, time criticality, and economies of scale, assigning a value of 0, 1, or 2.
- ▶ **Step 3:** Add the total values: 0 3 centralize and 4 6 decentralize.

Decision	Frequent? Y=2 N=0	Time-critical? Y=2 N=0	Economies of scale? Y=0 N=2	Total
	A STATE OF THE			100 000

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2-75

# Keys to practicing decentralized decision-making

- ▶ Openly discuss how decisions are made and explore opportunities to move authority for those decisions closer to where the work is performed.
- ▶ Establish a decision-making framework that equips knowledge workers with the information to make good decisions.
- ▶ Provide clarity on organizational objectives, coach effective problem-solving, and provide opportunities to exercise and cultivate decision-making abilities.
- ► Take responsibility for making and communicating strategic decisions—those that are infrequent, long lasting, and have significant economies of scale.

  Decentralize all other decisions.

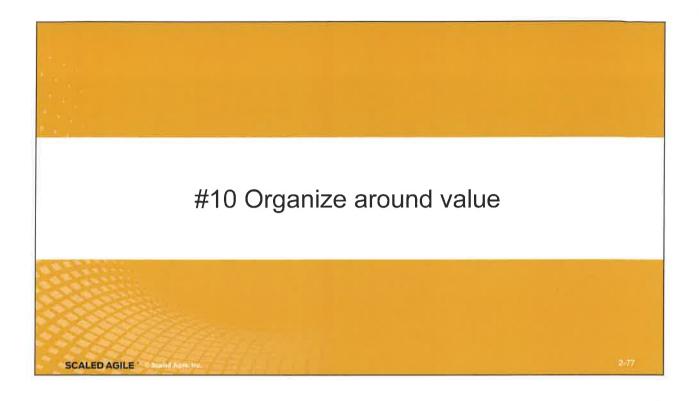
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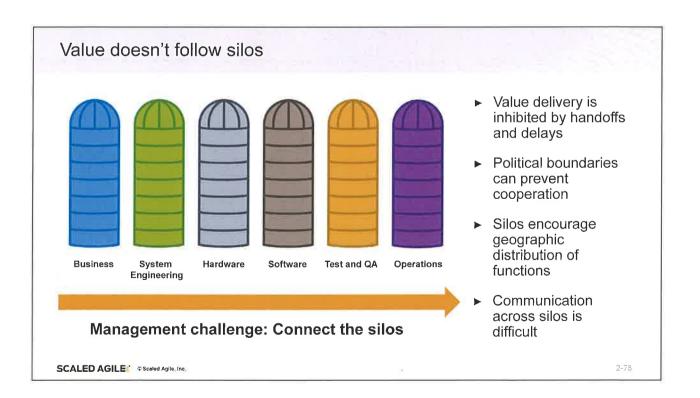
# Decentralize Decision-Making

Decision	Frequent? Y=2 N=0	Time- critical? Y=2 N=0	Economies of scale? Y=0 N=2	Total
				0
				0
				0

Notes

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## Instead, organize around Development Value Streams

The aim of development is in fact the creation of profitable operational value streams.

—Allen C. Ward

- ▶ Includes activities from recognizing an opportunity through release and validation
- ► Contains the steps, the flow of information and material, and the people who develop the Solutions used by the Operational Value Streams

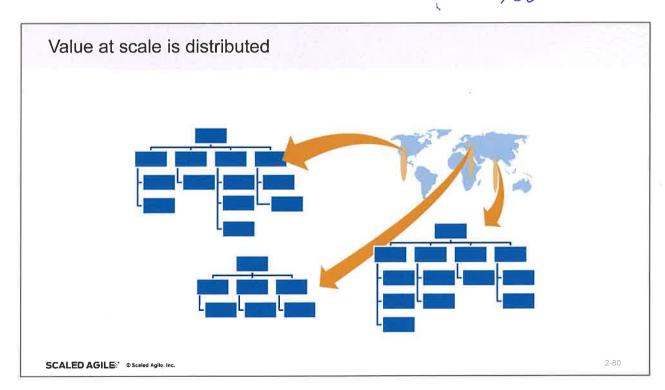


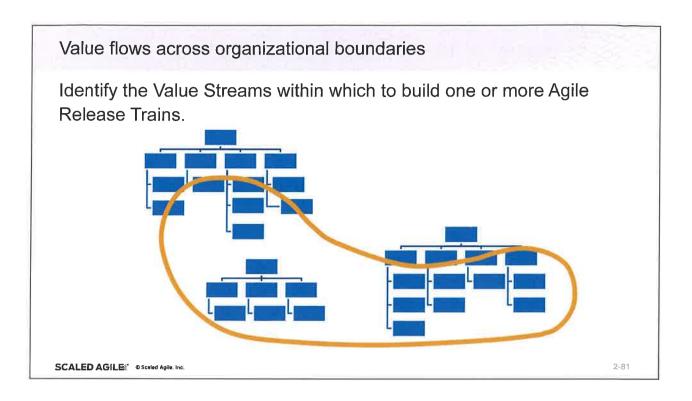
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Principles are great, but ...



Clarity on how to **think**, without clarity on how to **act**, leaves people unmoved.

-Daniel Pink

... it's time to put this thinking to work.

Let's start doing.



# Action Plan: Advocating for SAFe Principles





- ➤ Step 1: Individually identify three actions you can take to model and advocate SAFe Principles in your Enterprise.
- Step 2: Write them down in your Action Plan.
- ► **Step 3:** In your group, share some of the insights you gained from SAFe Principles.



2-8

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#### Lesson review

In this lesson you:

- ► Explored the Lean-Agile Mindset
- ▶ Applied Lean and Agile at scale with the SAFe Principles



# **Action Plan**

Advocating for SAFe Principles

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#### Articles used in this lesson

Read these Framework articles to learn more about topics covered in this lesson

- ► "Core Values"

  <a href="https://www.scaledagileframework.com/safe-core-values/">https://www.scaledagileframework.com/safe-core-values/</a>
- "Lean-Agile Mindset" https://www.scaledagileframework.com /lean-agile-mindset/
- ► "SAFe Principles"

  <a href="https://www.scaledagileframework.com/safe-lean-agile-principles/">https://www.scaledagileframework.com/safe-lean-agile-principles/</a>
- "Lean-Agile Leadership" https://www.scaledagileframework.com /lean-agile-leadership/

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# Continue your SAFe journey with the following resources

Review the SAFe Core Values
E-learning:
https://bit.ly/CommunityGettingStarted

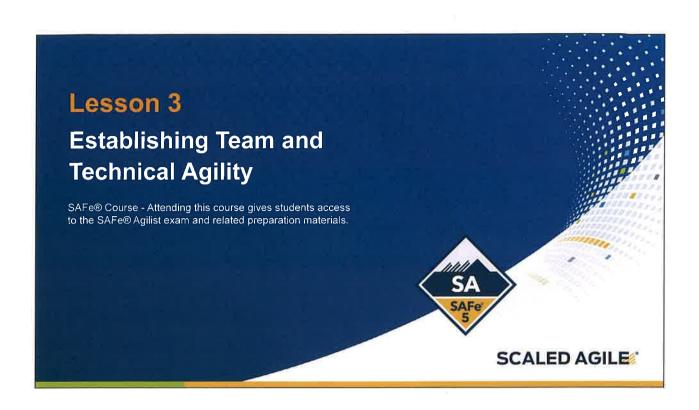
Review the *Lean-Agile Mindset* E-Learning:

https://bit.ly/Community-GettingStarted Review the SAFe Lean-Agile Principles E-Learning: https://bit.ly/Community-GettingStarted

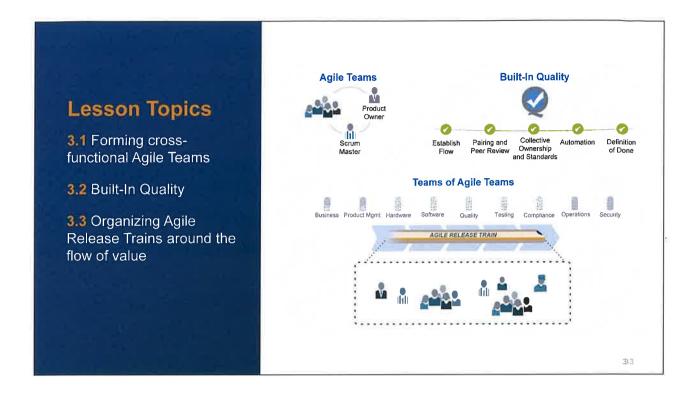
Watch this one-minute video, How Batch Size Affects Delivery Speed, which demonstrates how smaller batches enable faster delivery: https://bit.ly/Video-BatchandDeliverySpeed

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Lesson notes			
Enter your notes below. If using a digital workbook, save your PDF any of your notes.	often so you	u don't lose	•



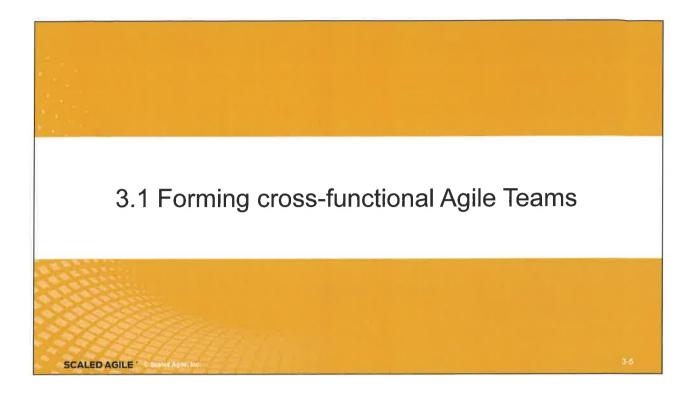




### Learning objectives

At the end of this lesson, you should be able to:

- ▶ Prepare to form cross-functional Agile Teams
- ► Describe Built-in Quality practices
- ► Recommend organizing around value with Agile Release Trains (ARTs)



# **Build cross-functional Agile Teams**

Agile Teams are cross-functional, self-organizing entities that can define, build, test, and where applicable, deploy increments of value.

- ▶ Optimized for communication and delivery of value
- Deliver value every two weeks
- Contain two specialty roles:
  - Scrum Master
  - Product Owner



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### Responsibilities of the Agile Team



- ▶ Five to eleven team members
- Create and refine Stories and acceptance criteria
- ▶ Define, build, test and deploy Stories
- Build quality in to each increment of the solution.
- ▶ Develop and commit to team PI Objectives and Iteration Goals



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3.7

# Agile Teams have two speciality roles



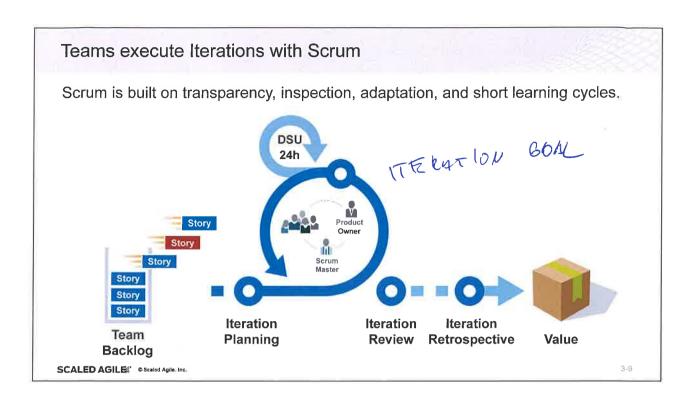
#### **Scrum Master**

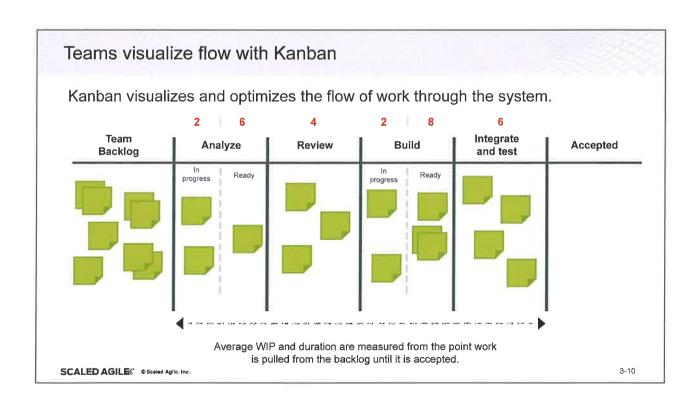
- Coaches the Agile Team in selfmanagement
- Helps the team focus on creating increments of value each Iteration
- Facilitates the removal of impediments to the team's progress
- Ensures that all team events take place, are productive and kept within the timebox

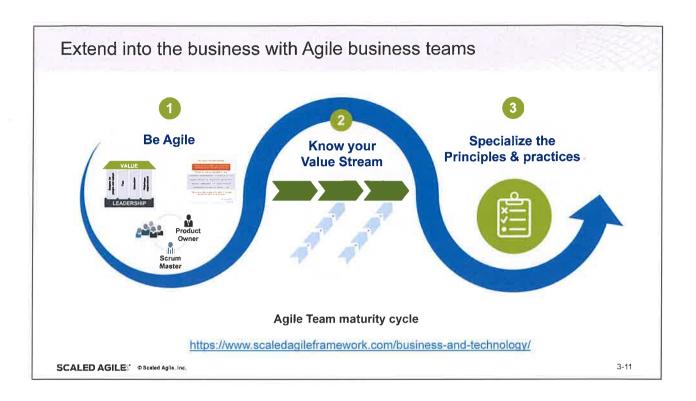


#### **Product Owner**

- Contributes to the Vision and Roadmap
- Acts as the Customer for team questions
- Creates, clearly communicates and accepts Stories
- Prioritizes the Team Backlog









# Activity: Identify team names and roles



- ▶ Step 1: Your team is your group. Create a team name
- ▶ Step 2: Select a Scrum Master for your team
- ▶ Step 3: Select a Product Owner for your team
- ► Step 4: Make sure the team name and the names of the people selected are visible to all other teams
  - Note: In the next lesson, your team will experience PI Planning



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# Build quality in

You can't scale crappy code (or hardware, or anything else).
 Dean Leffingwell

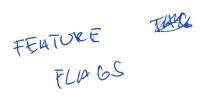
- Ensures that every increment of the Solution reflects quality standards
- ▶ Is required for high, sustainable development velocity
- ▶ Agile quality practices apply to every team, whether business or technology:
  - Establish flow

CANDAN.

- Peer review and pairing
- Collective ownership and standards
- Automation
- Definition of done

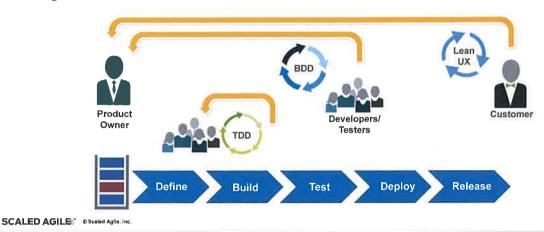
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# Built-in Quality practices for software teams

Include software quality practices (most inspired by XP) like, Agile testing, behavior-driven development, test-driven development, refactoring, code quality, and Agile architecture.

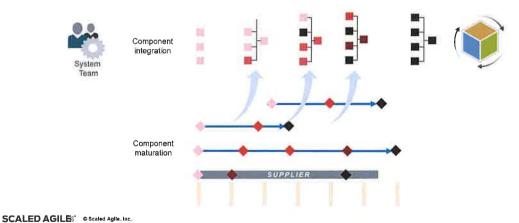


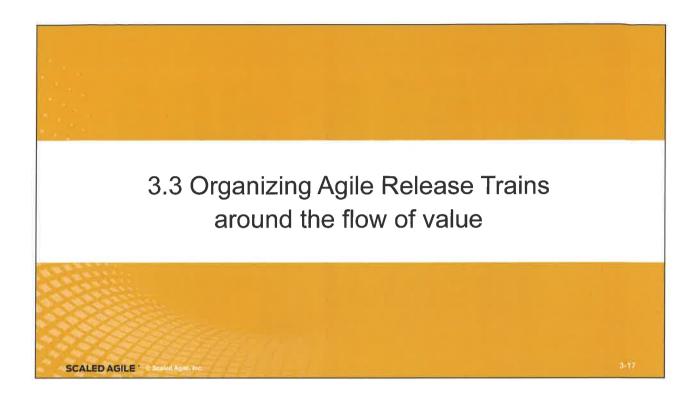
TEST DEWEN DEN- BOD

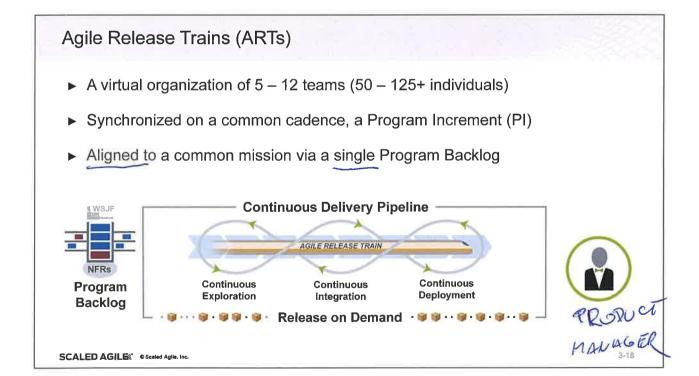
# Built-in Quality practices for hardware teams

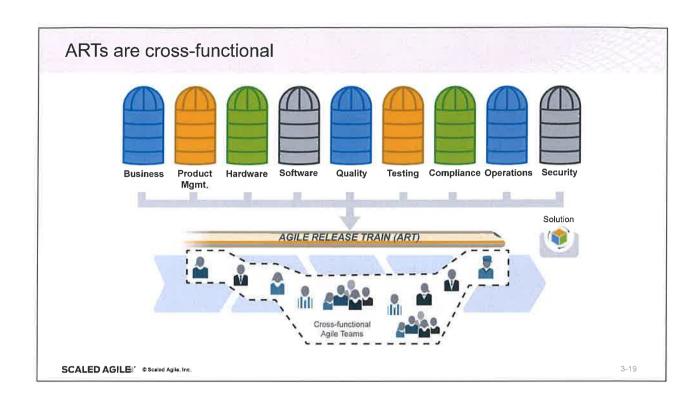


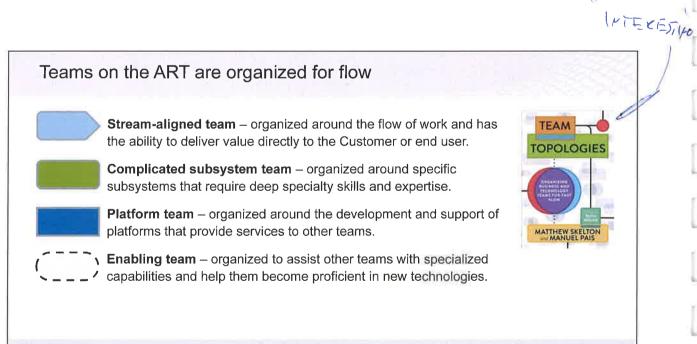
Support hardware quality with exploratory, early iterations, frequent system-level integration, design verification, Model-Based Systems Engineering (MBSE), and set-based design.





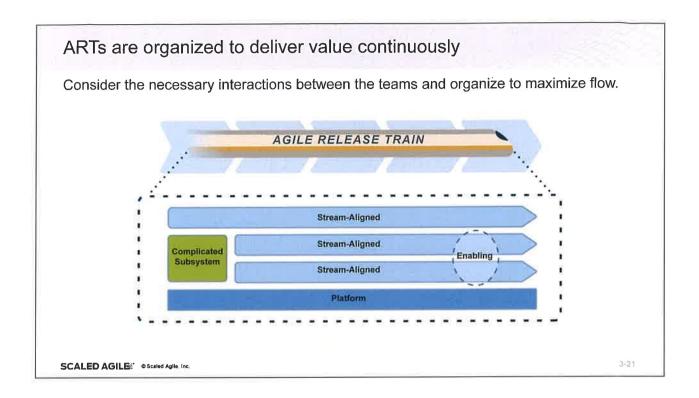


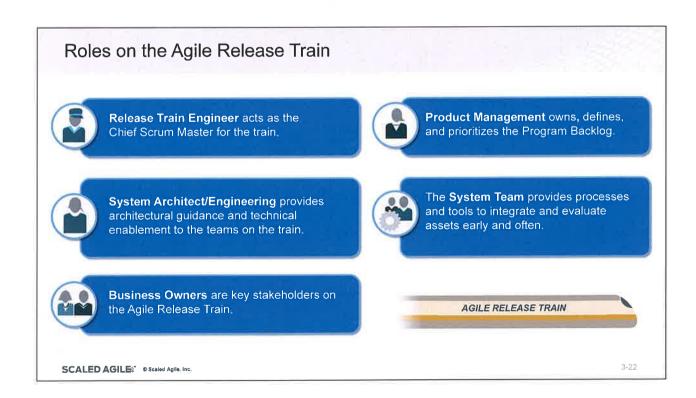




More information in the Advanced Topic Article: https://www.scaledagileframework.com/organizing-agile-teams-and-arts-team-topologies-at-scale/

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#### Lesson review

In this lesson you:

- Discussed how to form cross-functional Agile Teams
- ► Reviewed built-in quality practices
- ► Explored how to organize Agile Release Trains (ARTs) around the flow of value

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3-23

#### Articles used in this lesson

Read these Framework articles to learn more about topics covered in this lesson

- "Team and Technical Agility" https://www.scaledagileframework.com/teamand-technical-agility/
- "Built-In Quality" https://www.scaledagileframework.com/builtin-quality/
- ► "Agile Teams"

  <a href="https://www.scaledagileframework.com/agile-teams/">https://www.scaledagileframework.com/agile-teams/</a>
- ► "Agile Release Train"

  <a href="https://www.scaledagileframework.com/agile-release-train/">https://www.scaledagileframework.com/agile-release-train/</a>

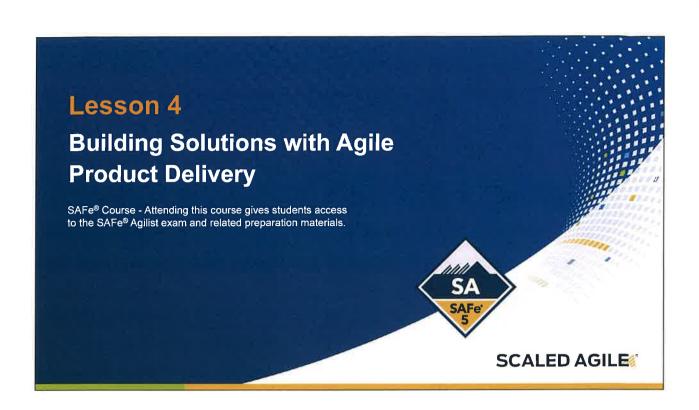
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Review the Agile Basics E-Learning: https://bit.ly/Community-GettingStarted	Run an Agile Team Charter Workshop from the Team Formation Toolkit to create the foundation for successful teams in SAFe: <a href="https://bit.ly/Community-ToolkitsandTemplates">https://bit.ly/Community-ToolkitsandTemplates</a>
Apply the guidance from the advanced topic article, "Organizing Agile Teams and ARTs": https://www.scaledagileframework.com/organizing-agile-teams-and-arts-team-topologies-at-scale/	Review the Built-in Quality technical practices in the Agile Software Engineering Vlog series:  https://bit.ly/Playlist-SoftwareEngineering
Facilitate effective <i>Team Events</i> using the following tools and guidance: https://bit.ly/Community-SAFeARTandTeamEvents	Run a Team and Technical Agility Assessment to identify improvement opportunities: https://bit.ly/Community-MeasureAndGrow

# Lesson notes

Enter your notes below. If using a digital workbook, save your PDF often so you don't lose any of your notes.



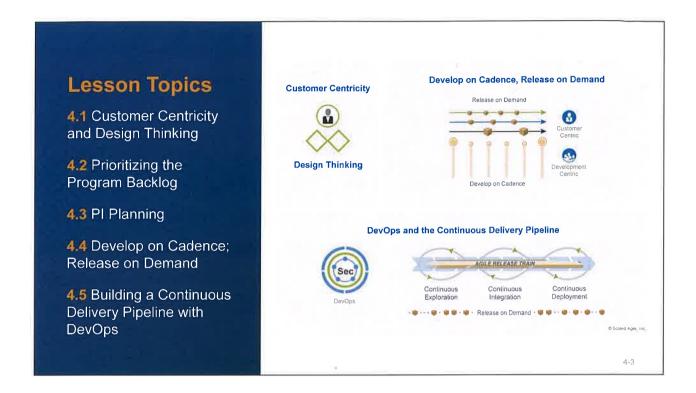
# Why Agile Product Delivery?

In order to achieve
Business Agility,
Enterprises must rapidly
increase their ability to
deliver innovative products
and services. To be sure
that the Enterprise is
creating the right Solutions
for the right Customers at
the right time, they must
balance their execution
focus with a Customer
focus.



BUSINESS AGILITY PROTUTE DSME SE ODBOSILI

Workbook

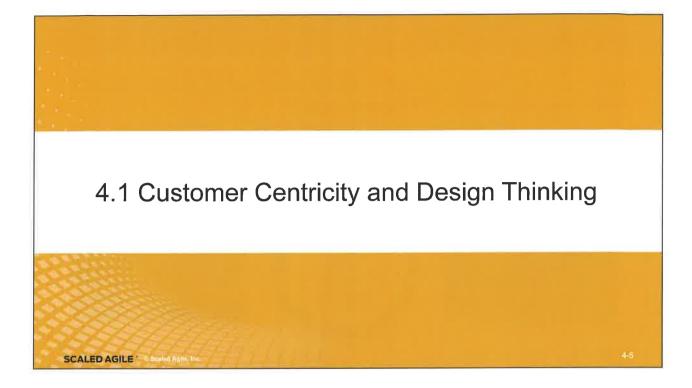


### Learning objectives

At the end of this lesson, you should be able to:

- ▶ Express the benefits of a Customer-centric culture
- Practice applying Design Thinking
- Prioritize the Program Backlog with weighted shortest job first (WSJF)
- Participate in a PI Planning event
- ► Explain the need to Develop on Cadence; Release on Demand
- Justify the need to build and maintain a Continuous Delivery Pipeline with DevOps

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# Discussion: Customer Centricity





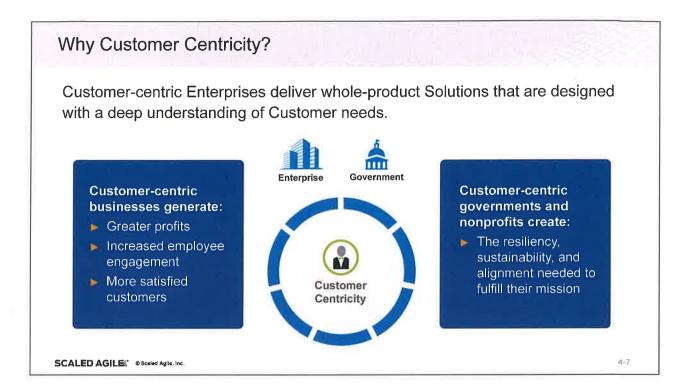
- ▶ Step 1: Discuss as a group:
  - Why is it important to maintain focus on the Customer?
  - What are some of the characteristics of a Customer-centric Enterprise?
- ▶ **Step 2:** Be prepared to share with the class.

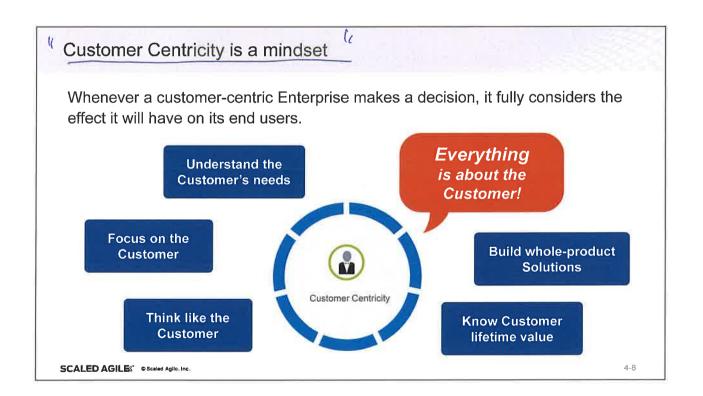


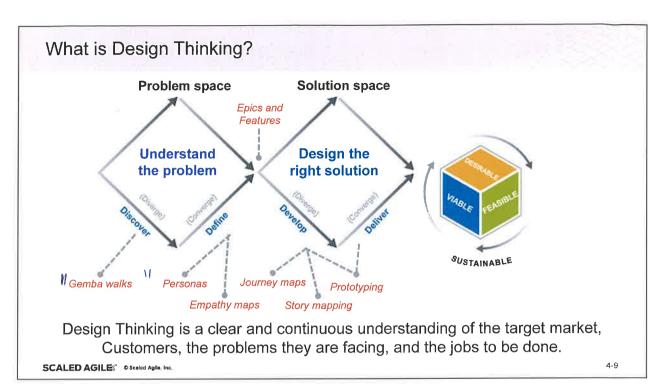
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4-6

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CEMBA - MISTO EINU

# Use personas to understand Customers

Personas are fictional characters that represent the different people who might use your product. Personas:

- Convey the problems they're facing in context and key triggers for using the product
- Capture rich, concise information that inspires great products without unnecessary details



# Cary the Consumer

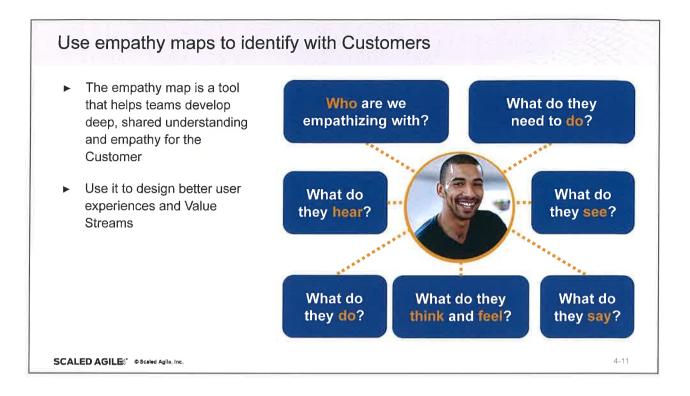
Age: 36

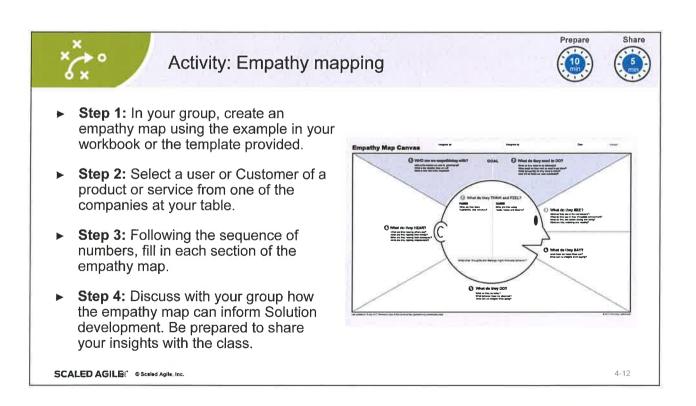
Location: Reno, Nevada, USA Time in App: 10 minutes

"I'm a working dad with three children ages 3, 6, and 10. I'm also in a band, which means I want to spend as much time as possible with my kids and my band. I need my package delivered on time so that I can maximize time with my family."

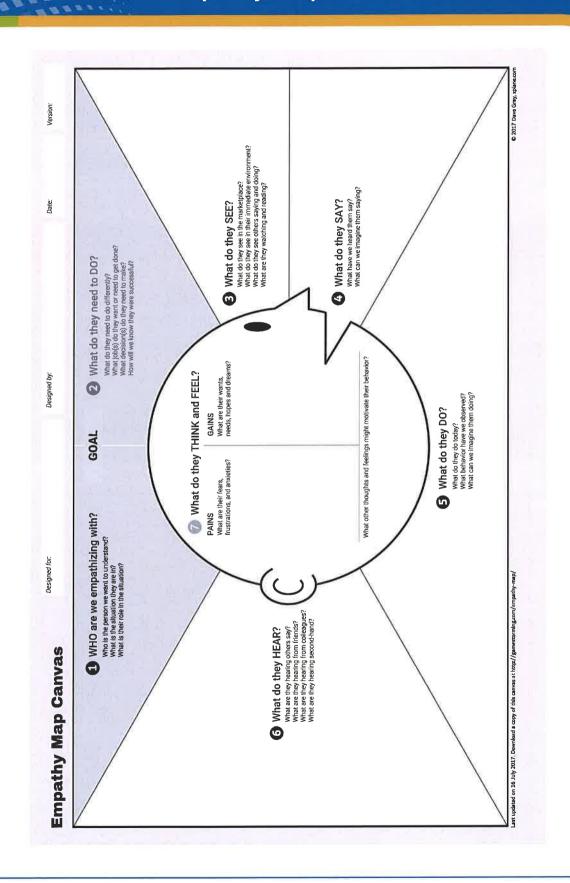
l like technology! I have an iPhone, iPad, and nice home Wi-Fi setup	I am not home on some weekends	I'd rather order online than dial the phone and talk to somebody
My wife also works during the week, so she doesn't have much spare time to help	Text is my favorite form of communication with suppliers	I don't own a computer, only tablets and phones.

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# **Empathy Map Canvas**

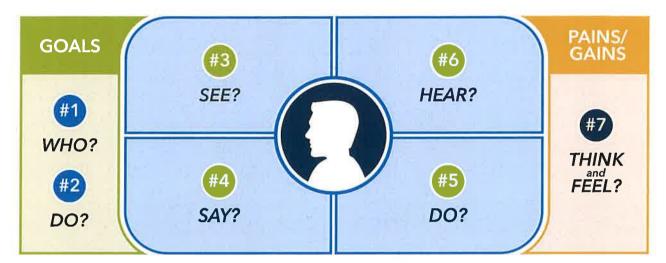


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# **Empathy Mapping**

#### Instructions:

- **Step 1:** Select a user customer of a product or service from one of your companies in your group.
- **Step 2:** Following the sequence of numbers, fill in each section of the empathy map in the spaces below.
- **Step 3:** Discuss with your group how the empathy map can inform Solution development. Be prepared to share with the class.



GOAL: WHO are we empathizing with?
Who is the person we want to understand?

What is the situation they are in?

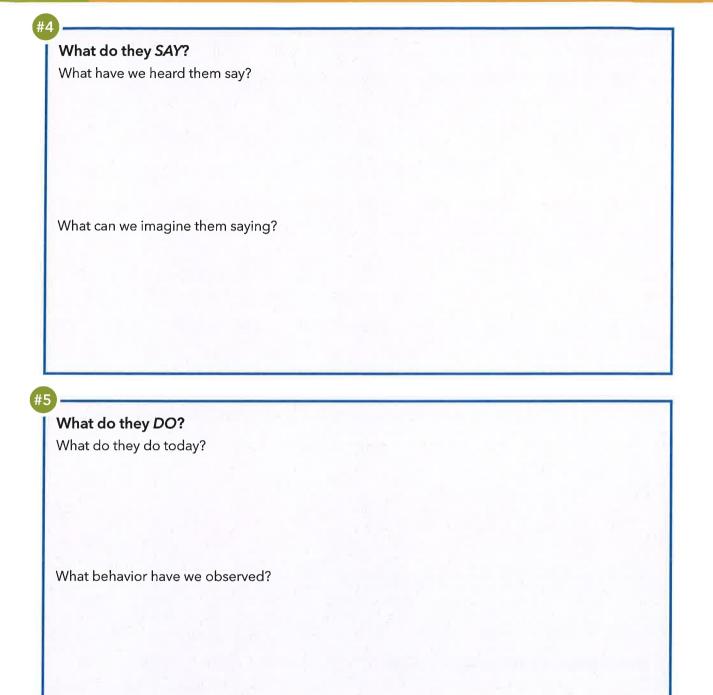
What is their role in the situation?

# **Empathy Mapping**

	nat do they need to DO?	
What do th	ey need to do differently?	
What job(s)	do they want or need to get done?	
What decisi	ion(s) do they need to make?	
How will we	know we were successful?	
What do th	ney SEE?	
What do the	ey see in the marketplace?	
	3	
What do the	ey see in their immediate environment?	
	ey see others saying and doing?	
What do the		
What do the		
What do the		
	ey watching and reading?	

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# **Empathy Mapping**



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What can we imagine them doing?