

Era of Hybrid Delivery

“Prior to updating The Standard for Project Management, significant research and review were conducted....

... Analysis of the research led to the conclusion that more organizations are embracing a variety of project management approaches. **Some organizations are moving toward a hybrid approach which mixes predictive and adaptive practices.** Organizations and project teams are tailoring their approaches to the needs of the industry, organization, and project.”

PMBOK Guide, 7th Edition, page 228



Era of Hybrid Delivery

Predictive Approach.

A development approach in which the project scope, time, and cost are determined in the early phases of the life cycle.

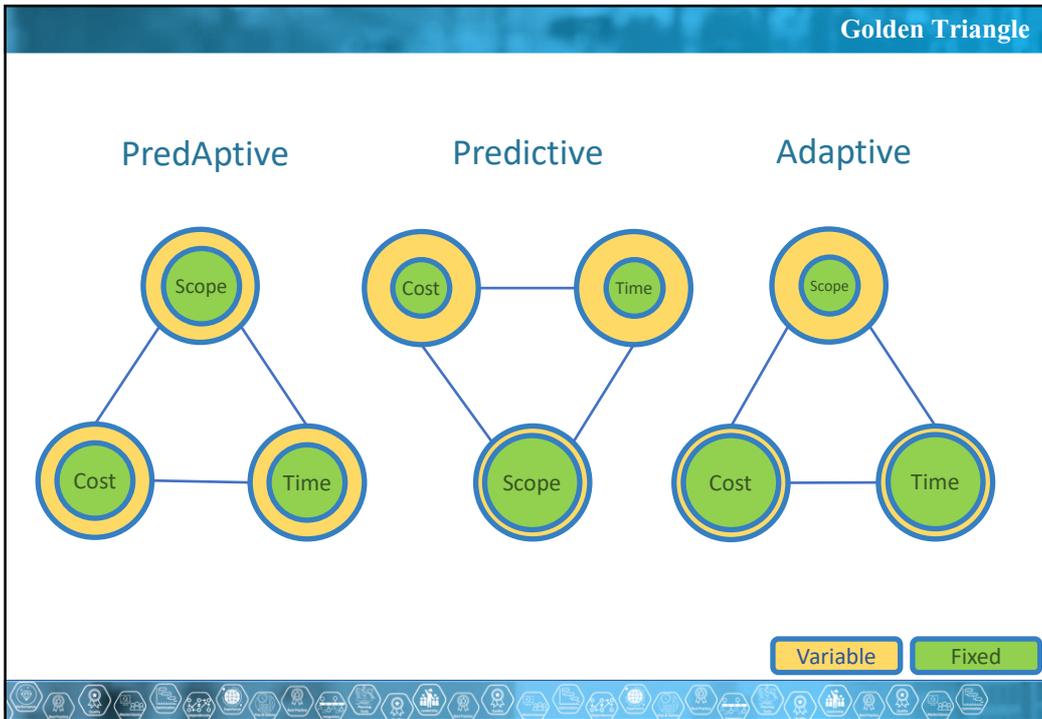
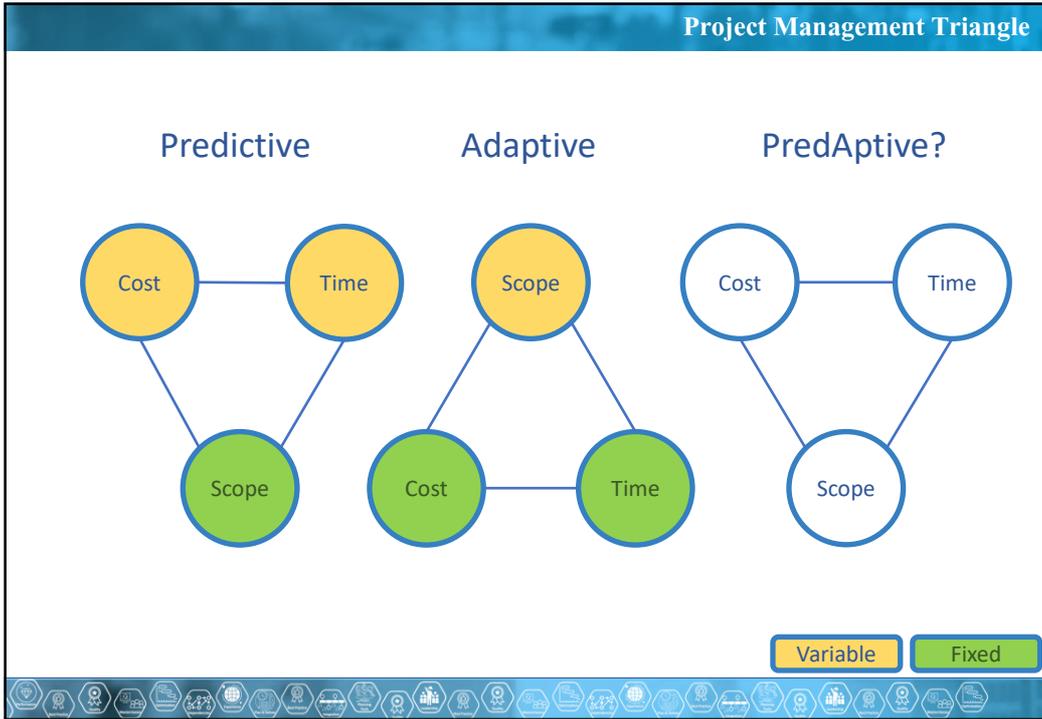
Adaptive Approach.

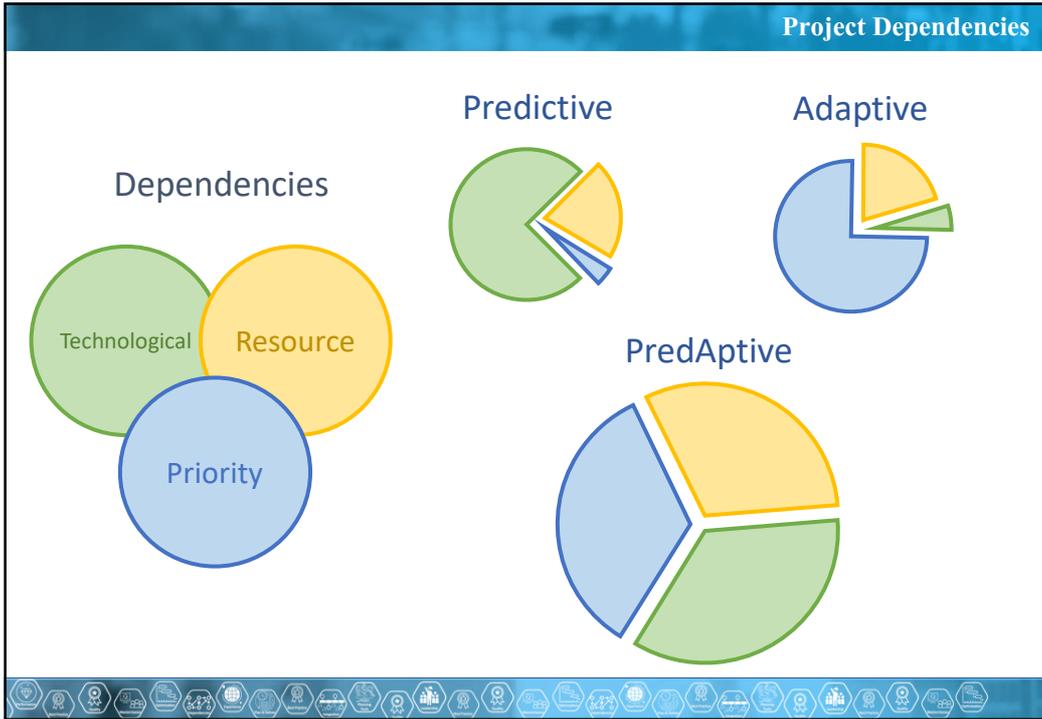
A development approach in which the requirements are subject to a high level of uncertainty and volatility and are likely to change throughout the project.

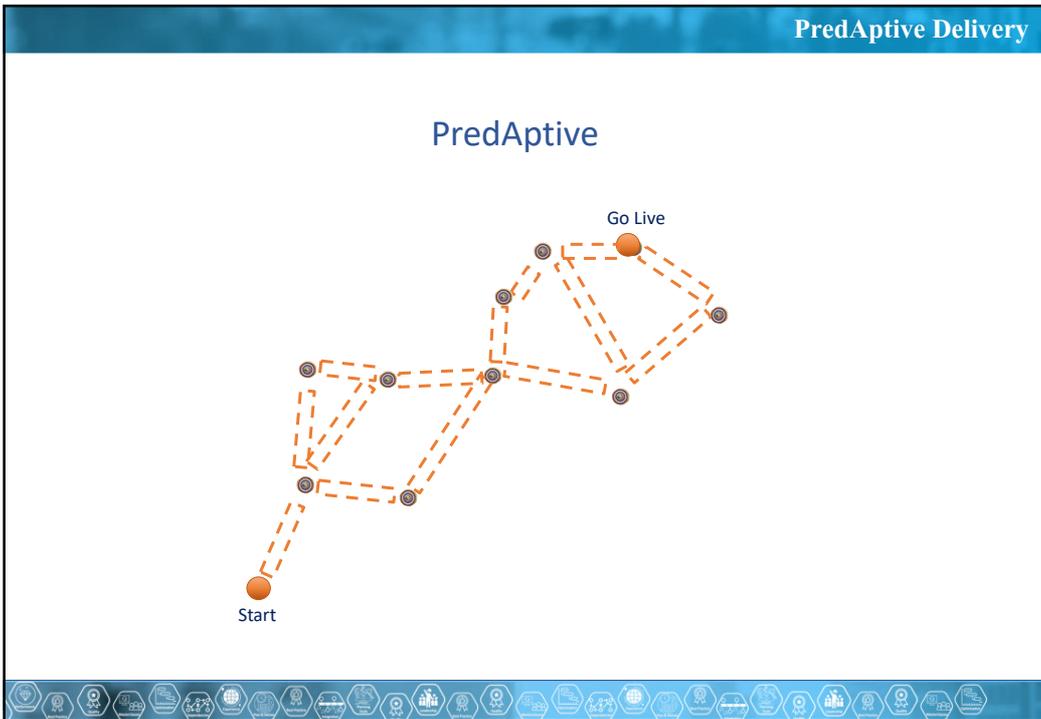
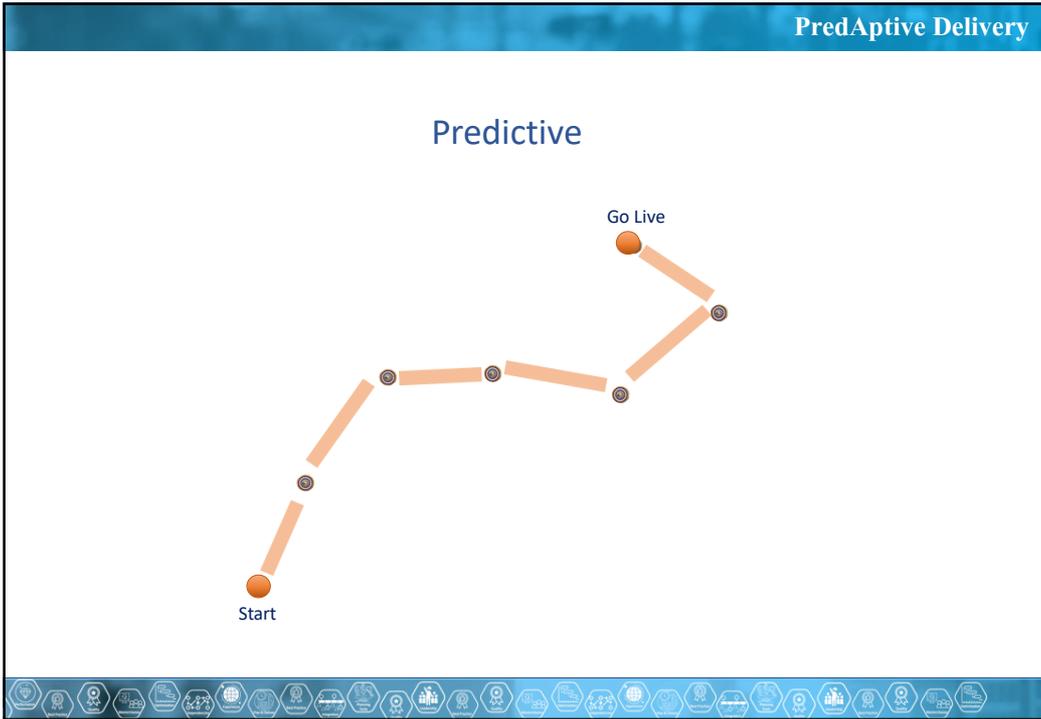
PMBOK Guide, 7th Edition,

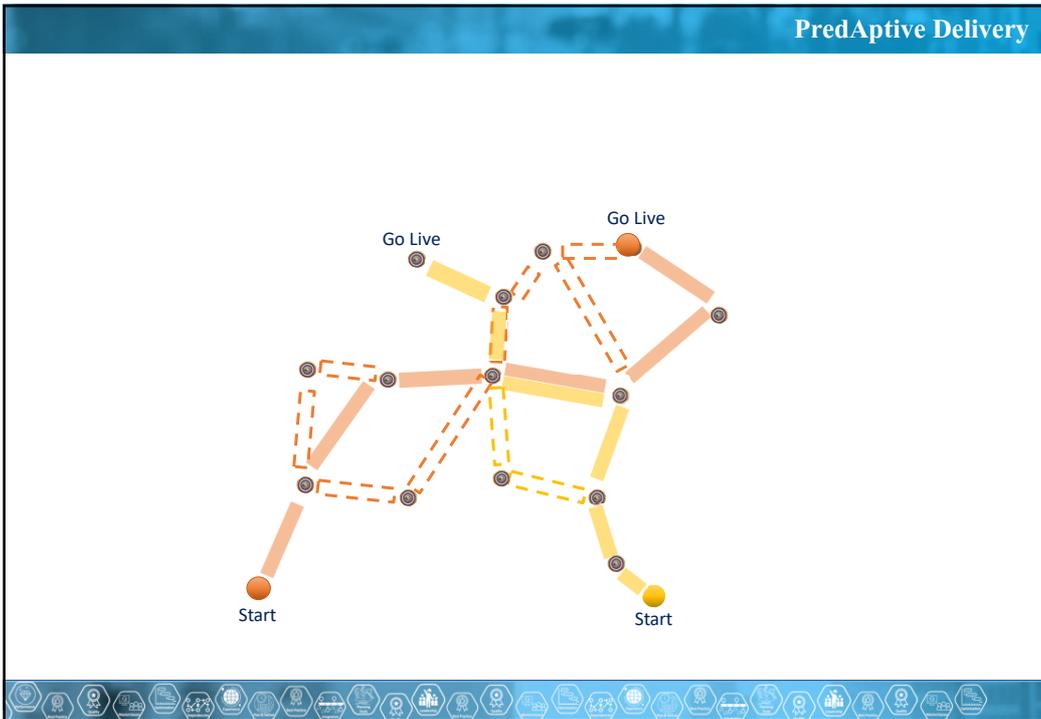
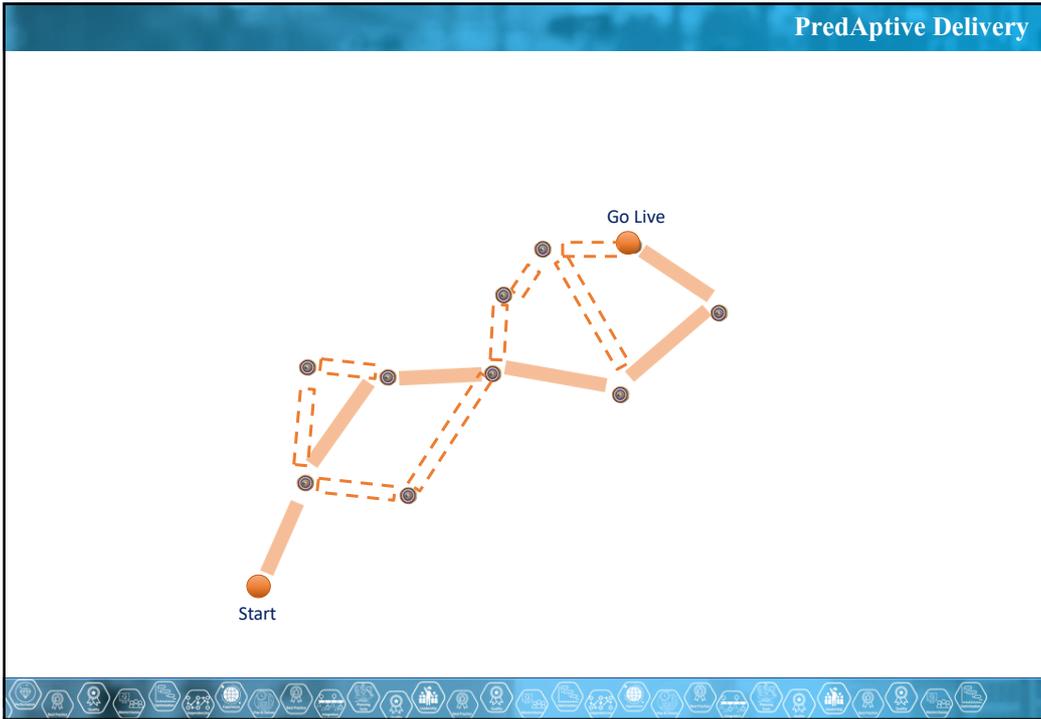
PreActive Approach - ?











Dynamic Project Delivery Model

Artificial Intelligence Algorithms

Dynamic Project Delivery Model

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The diagram consists of two rounded rectangular boxes with purple borders. The top box contains a tree diagram icon on the left and the text 'Artificial Intelligence Algorithms' on the right. The bottom box contains a computer monitor icon displaying a network graph on the left and the text 'Dynamic Project Delivery Model' on the right. A footer bar at the bottom contains a series of small icons and the number '13'.

Dynamic Project Delivery Model

Complexity

Uncertainty

Agility

Contract Management Layer

Project Management Layer

System Layer

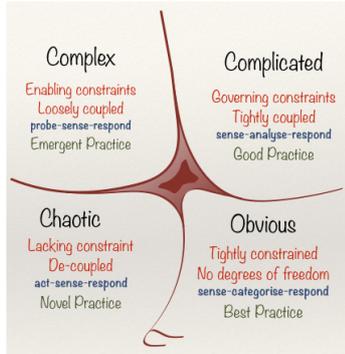
Strategic Layer

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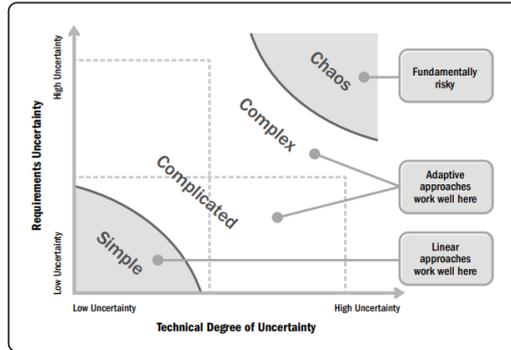
The diagram shows a pyramid-like structure of four horizontal layers. From top to bottom: 1. 'Contract Management Layer' (blue) with a document icon, positioned below 'Complexity', 'Uncertainty', and 'Agility' labels. 2. 'Project Management Layer' (green) with a clock and gear icon. 3. 'System Layer' (yellow) with a factory icon. 4. 'Strategic Layer' (orange) with a scales icon. A footer bar at the bottom contains a series of small icons and the number '14'.

Complexity Frameworks

The Cynefin Framework

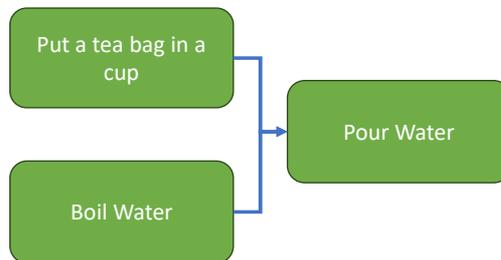


The Stacey Complexity Model



Agile Practice Guide (PMI)

System Layer



Integration – Library of working elements

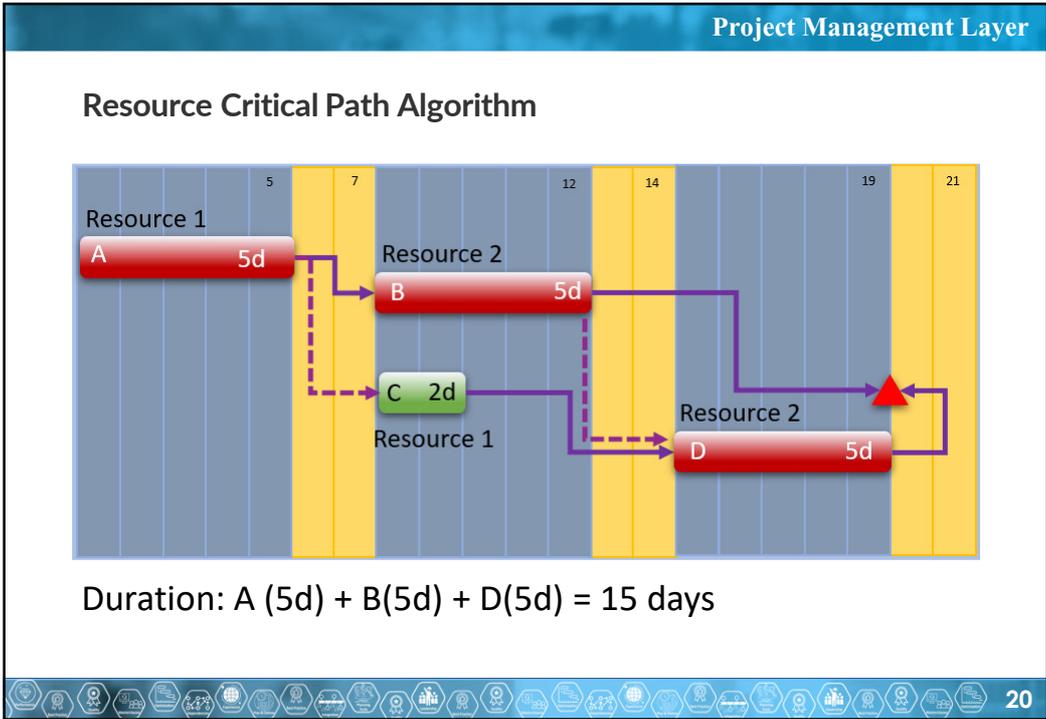
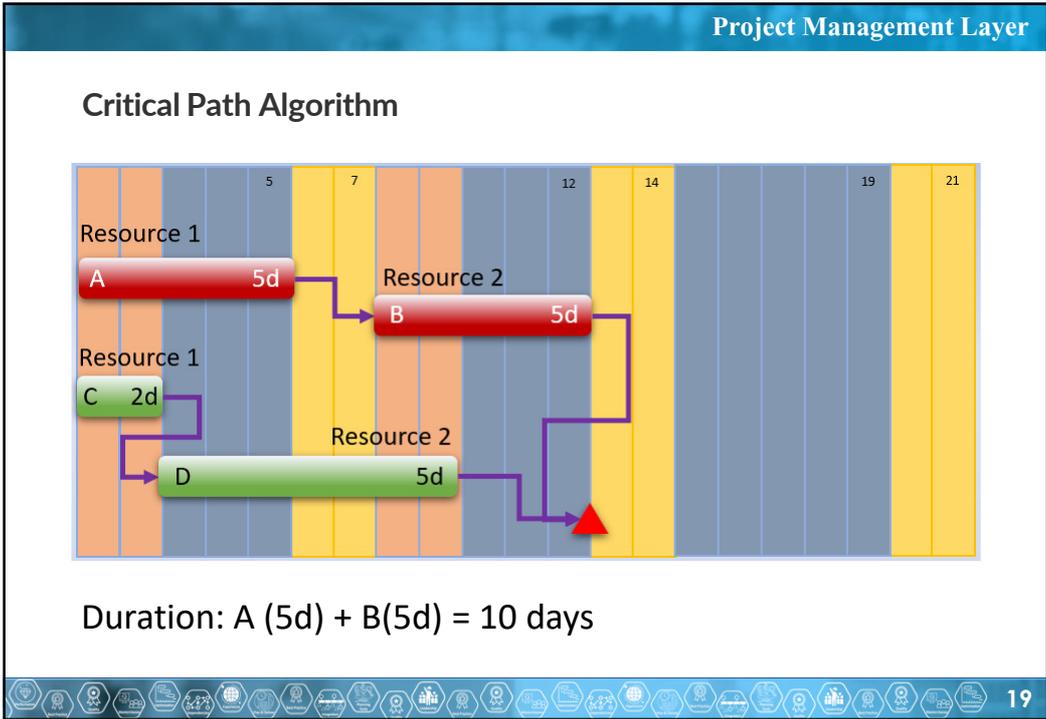
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Project Management Layer

Critical Path Algorithm

Duration: A (5d) + B(5d) = 10 days

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Project Management Layer

Resource Critical Path Algorithm

Duration: $C(2d) + A(5d) + B(5d) = 12$ days

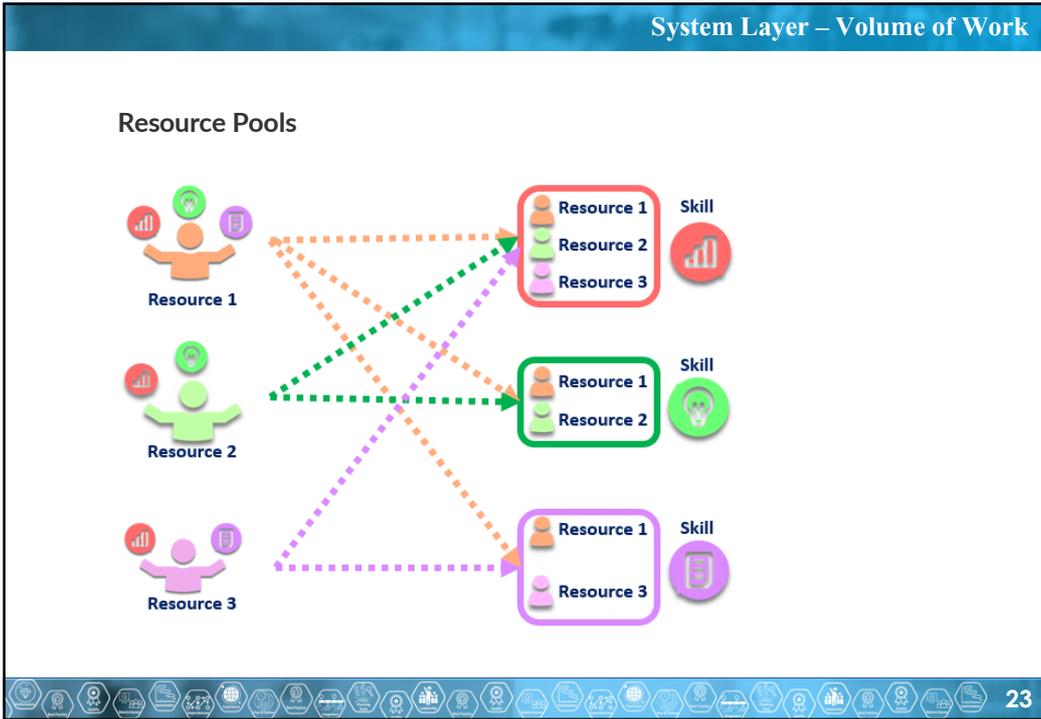
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Project Management Layer

Algorithm 1: 15 days

Algorithm 2: 12 days

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System Layer – Volume of Work

Physical Volumes (Quantities) of work & Resource productivity

	Volume	Unit of Volume	Productivity	Duration
Activity 1	100	m		
			5 m/h	???
Activity 2	200	m ³		
			20 m ³ /h	???
			10 m ³ /h	???

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System Layer – Volume of Work

Physical Volumes (Quantities) of work & Resource productivity

	Volume	Unit of Volume	Productivity	Duration
Activity 1	100	m		Calculated
			5 m/h	20 hrs
Activity 2	200	m ³		Calculated
			20 m ³ /h	10 hrs
			10 m ³ /h	20 hrs

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System Layer - Teams

Teams

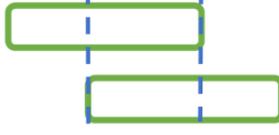
Activity 1

Work together

Team


Resource 1


Resource 2



Activity 2

Work independently

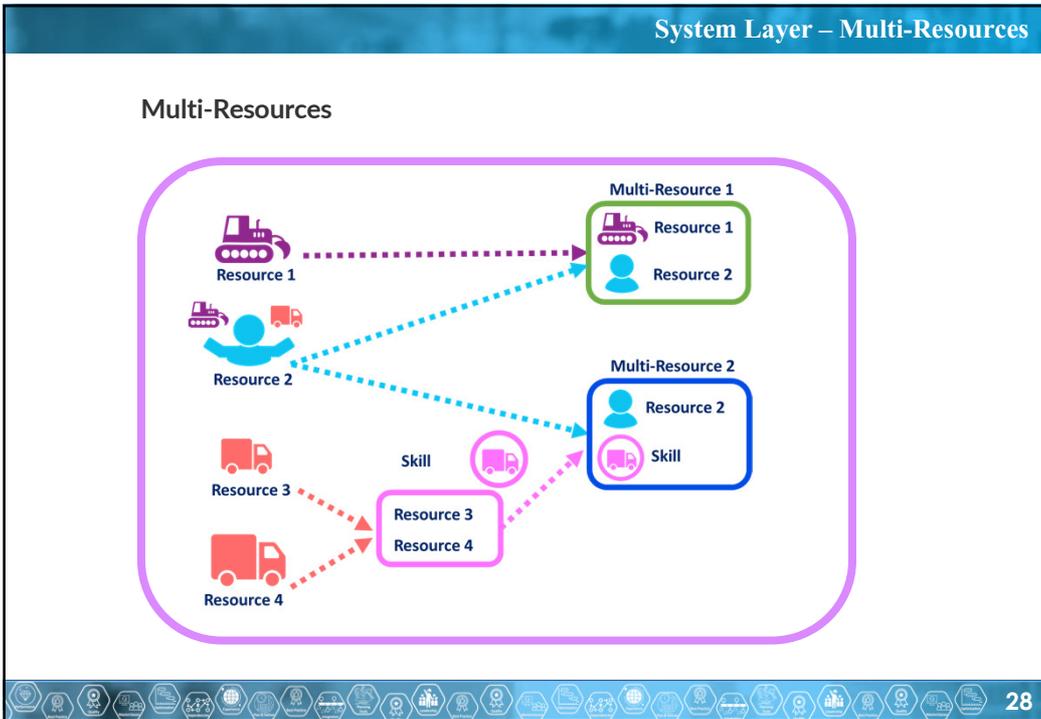
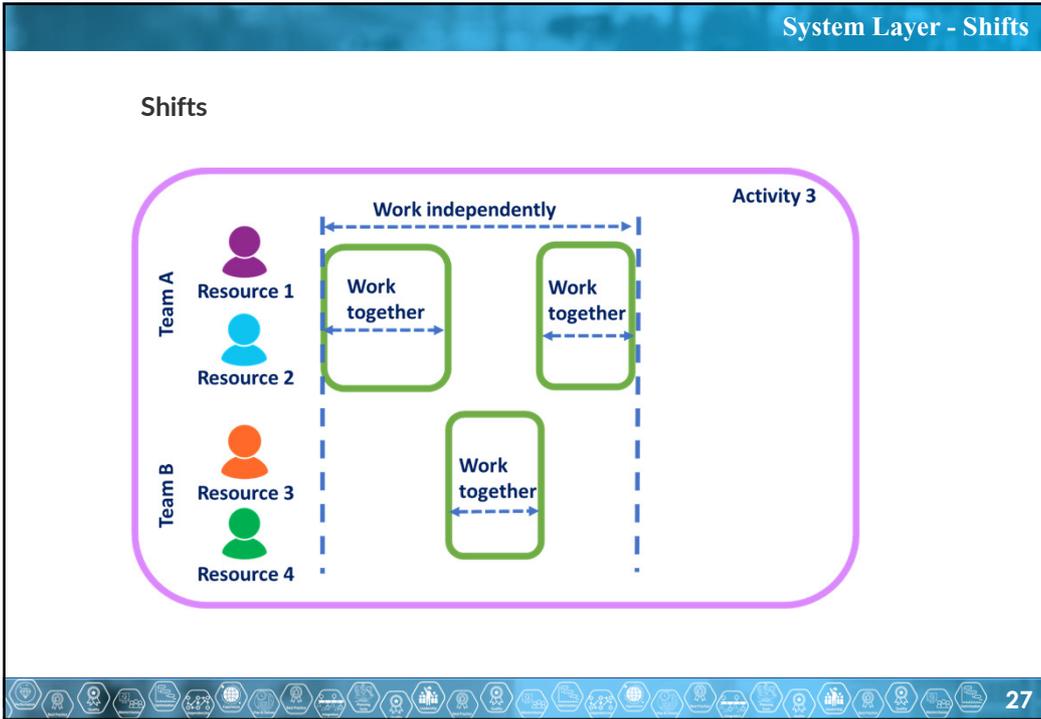
Team A


Resource 1

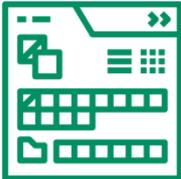
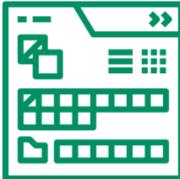
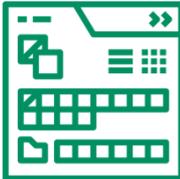

Resource 2



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Integration - Corporate Reference-books

<p>Resource Productivity Rates</p> 	<p>Material Consumption Rates</p> 	<p>Material Costs</p> 
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System Layer - Conditions



Put a tea bag in a cup

Boil Water

Pour Water

Boil Water

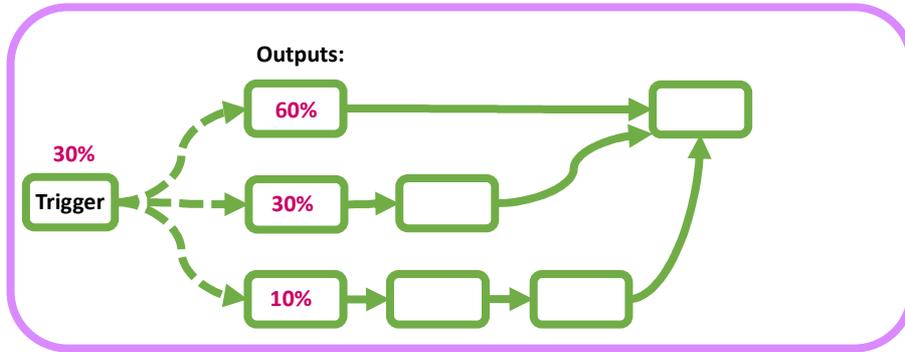
Pour Water

Put a tea bag in a cup

 30

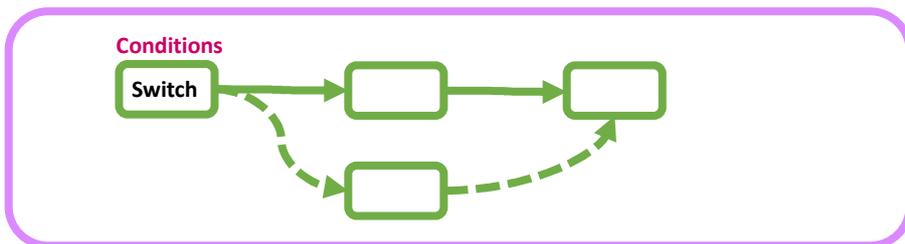
System Layer - Conditions

Events

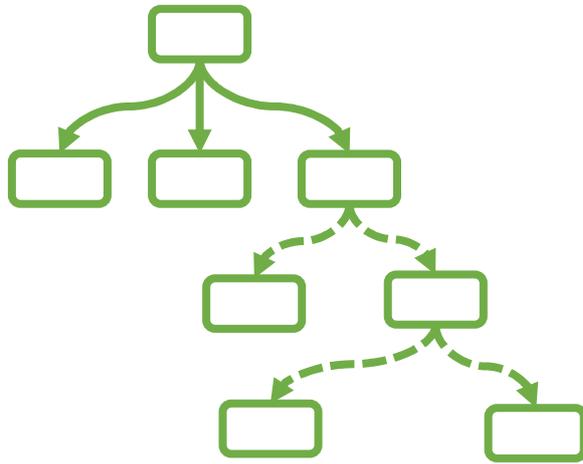


System Layer - Conditions

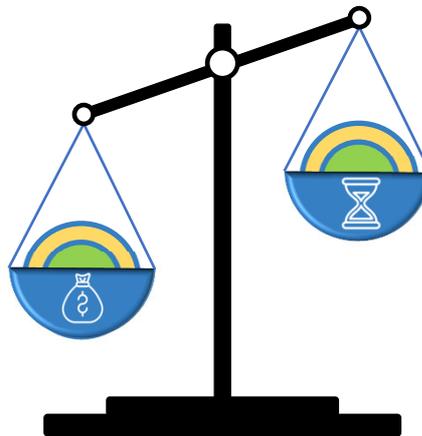
Conditions



Dynamic Project Delivery Model



Project Success Criteria



Conclusion

PreAptive Approach

Project benefits, scope, time, cost and resources are subject to uncertainty and volatility and are determined through the project life cycle. PredAptive delivery addresses complexity to enhance agility by applying Artificial Intelligence data-driven solutions.

*"All models are wrong, but some models are useful. So, the question you need to ask is not 'Is the model true?' (it never is) but '**Is the model good enough for this particular application?**'*

(George Box)

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Thank you



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