

Agility is...

AGILE PRODUCT DEVELOPMENT

WITH *CM2*



Working
Software

Management Summary

- ✓ **CM2** is Agile
- ✓ It is not the WHAT that makes it AGILE - It is the **HOW-TO**
- ✓ **CM2** provides the How-To's for **Sustainable Agile**

This is all to remember

What is Agile?

Adjective: Able to move quickly and easily (*Oxford English Dictionary*)



From now on we're going to change how we do things here. We need to be Agile!



What does it mean?

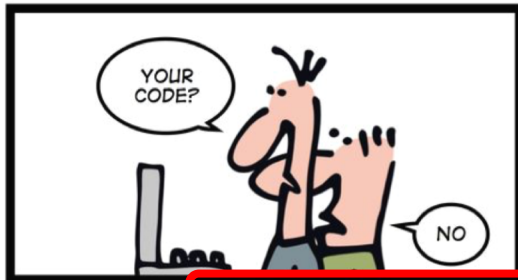


Nothing really changes except that now managers, designers and architects have an excuse for changing the requirements on Fridays at 4 PM.

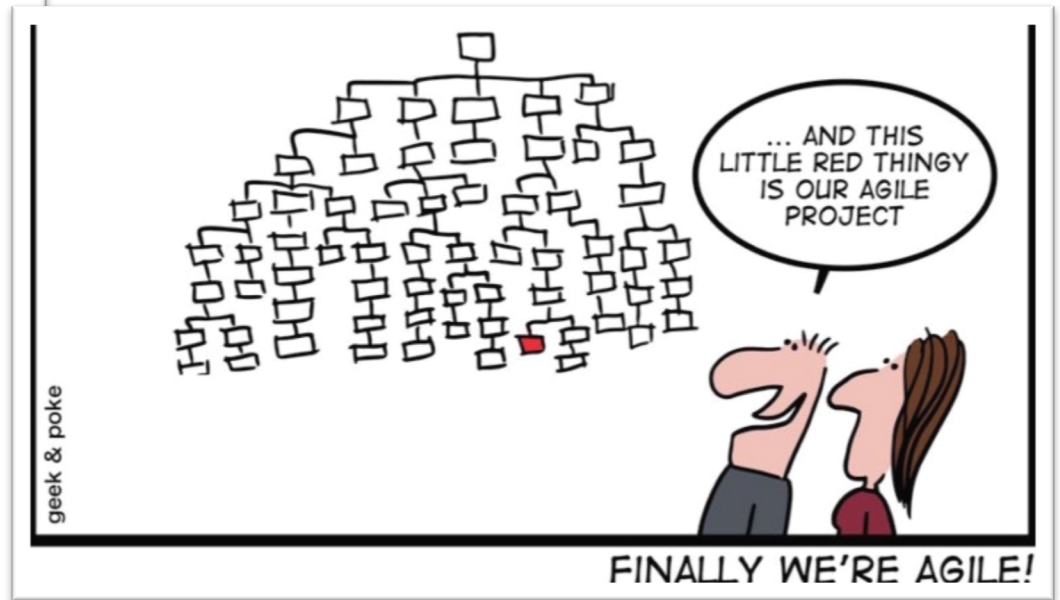
What is Agile?

Adjective: Able to move quickly and easily (*Oxford English Dictionary*)

HOW DO YOU KNOW IT'S AGILE?



PART 1: NO CODE OWNERS



Development Model Confusion



There is not just one Agile Model



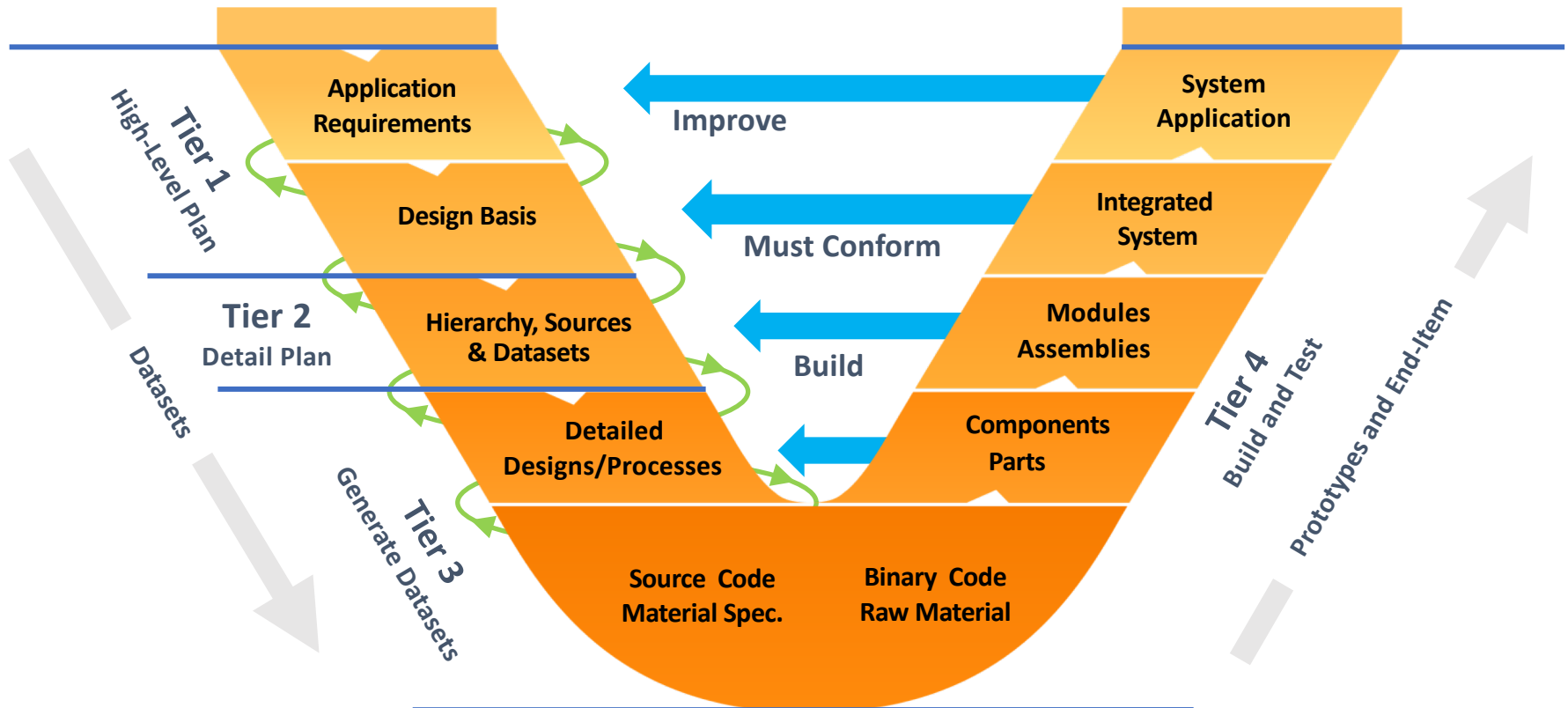
Quick Survey

- Have you every heard of Agile?
- Is your organization using Agile?
 - Only for Software?
 - Software and Hardware?
- Is Agile the same as CM2?
- Is CM2 Agile?



Product Development with CM2

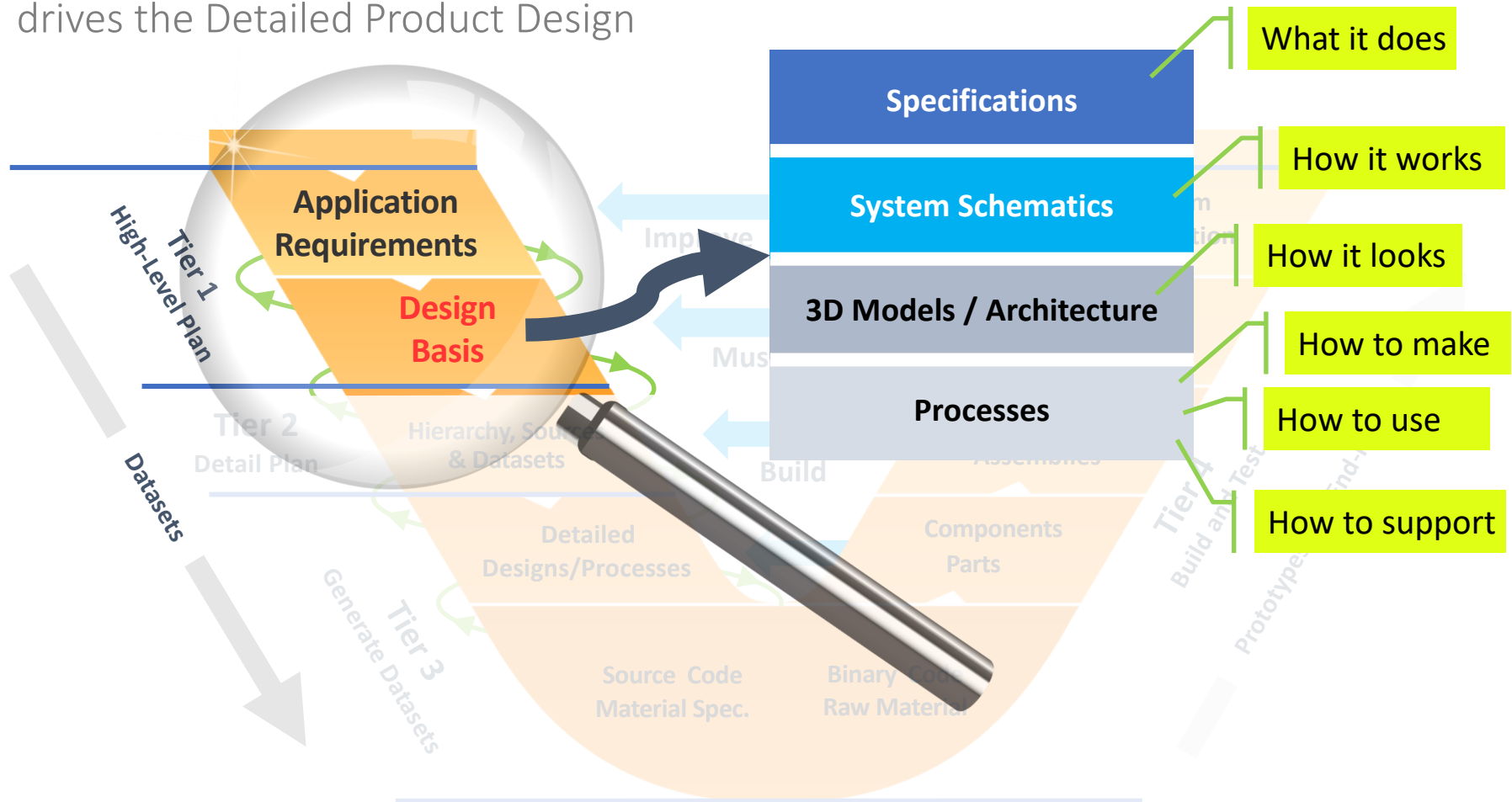
The CM2 Development Model (Combination of several models)



V Model – Spiraling – Concurrent Engineering ... Is this Agile?

Product Development with CM2

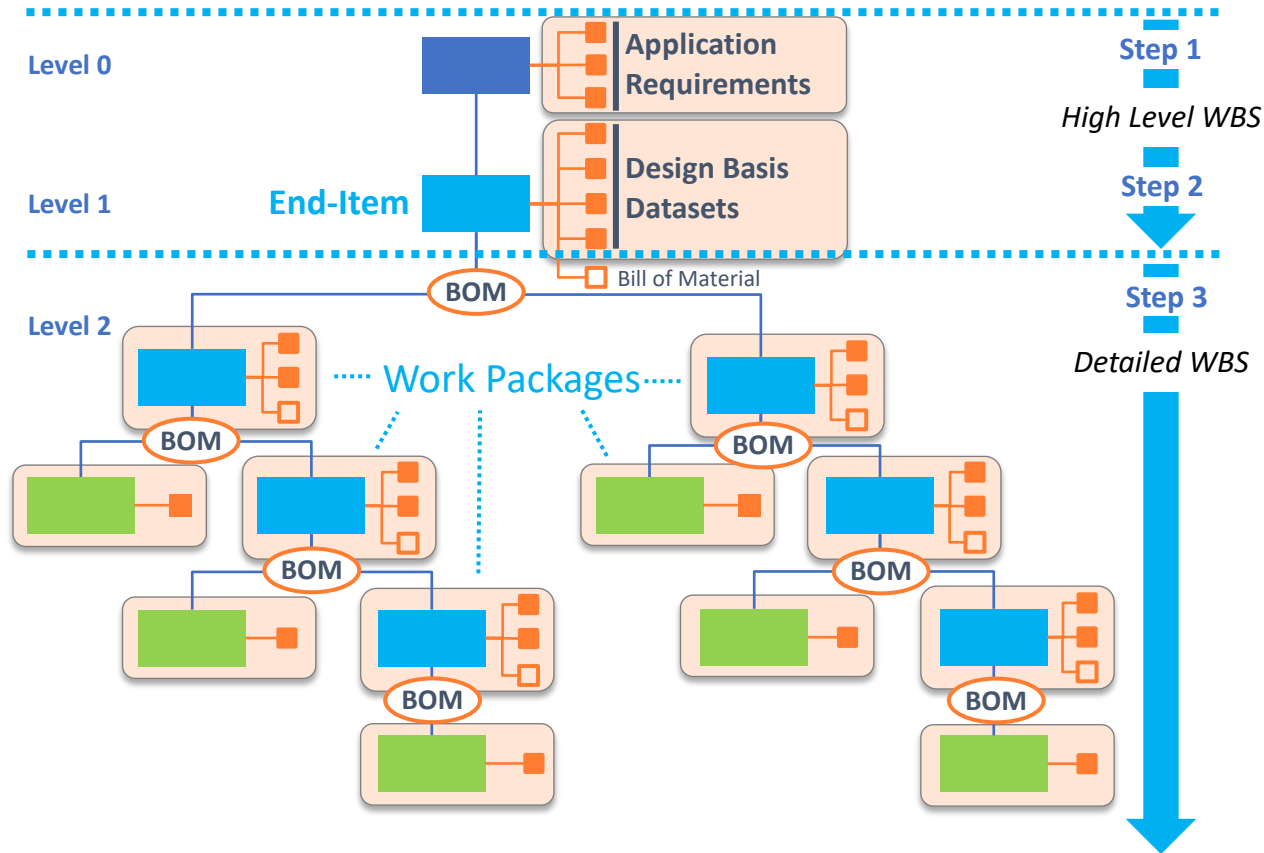
The Design Basis by Cross-Functional Teams drives the Detailed Product Design



To know what to do before going into the Details ... Is this Agile?

Product Development with CM2

Tier 2: Detailed Plan to define Work Packages



Breaking work into smaller pieces ... Is this Agile?

Product Development with CM2

Use of CM2 Baselines for Team Collaboration

CM2 Baseline												
ID No.		9012		Date		15/Sep/yy						
Items				Datasets					Changes			
Hierarchy & Quantity		Number	Name	Type	Number	Rev	Release Date	Effective Date	CN	A / D	Effectivity	CN
1		9012	Wind Turbine	FS	9012	B	30/Aug/yy	01/Sep/yy	00100			
				SS	9012	C	30/Aug/yy	01/Sep/yy	00100			
				3D	9012	B	30/Aug/yy	01/Sep/yy	00100			
				PP	9012	B	30/Aug/yy	01/Sep/yy	00100			
				BM	9012	B	30/May/yy	01/Sep/yy	00255			
1		1234	Rotor Assembly	AD	1234	B	30/Jul/yy	01/Aug/yy	00255			
				PP	1234	C	30/Jul/yy	01/Aug/yy	00255			
				BM	1234	C	30/May/yy	01/Aug/yy	00255			
	3	4321	Blade	DD	4321	A	30/Jun/yy	01/Jul/yy	00255			
				PP	4321	A	30/Jun/yy	01/Jul/yy	00255			
				BM	4321	A	30/May/yy	01/Jul/yy	00255	D	01/Nov/yy	00300
				BM	4321	B	01/Oct/yy	01/Nov/yy		A	01/Nov/yy	00300
	1	8901	Composite	MS	8901	A	30/May/yy	01/Jun/yy	00255	D		00300
	1	8902		MS	8902	A	30/Sep/yy	01/Oct/yy		A		00300
	1	9880	Rotor Hub	DD	9880	A	30/Jun/yy	01/Jul/yy	00255			
				PP	9880	A	30/Jun/yy	01/Jul/yy	00255			
				BM	9880	A	30/May/yy	01/Jul/yy	00255	D		00300
				BM	9880	B	01/Oct/yy	01/Nov/yy		A		00300
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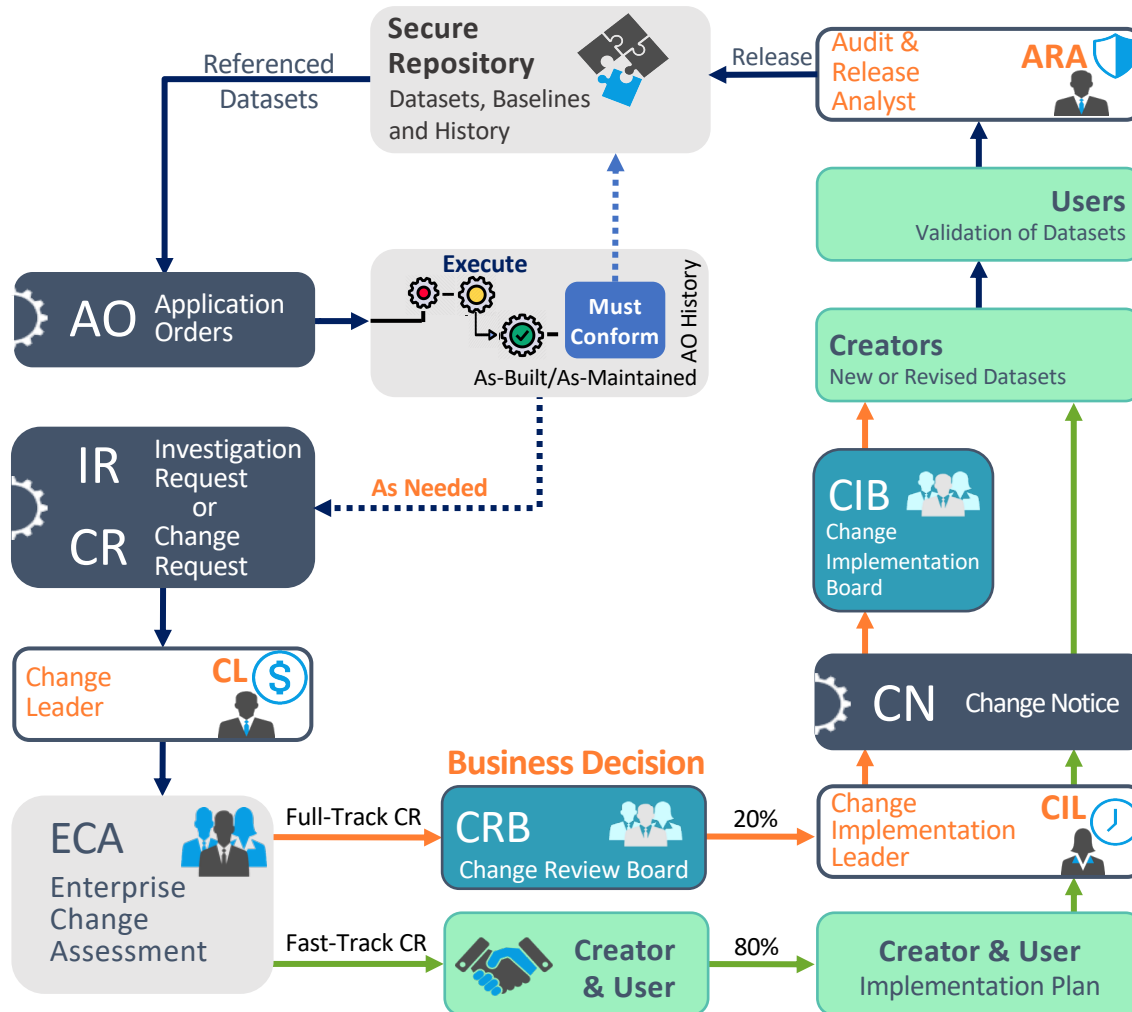
Providing visibility of what's going on ... Is this Agile?

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Product Development with CM2

Use of The CM2 Change Process with Fast-Track for all Projects

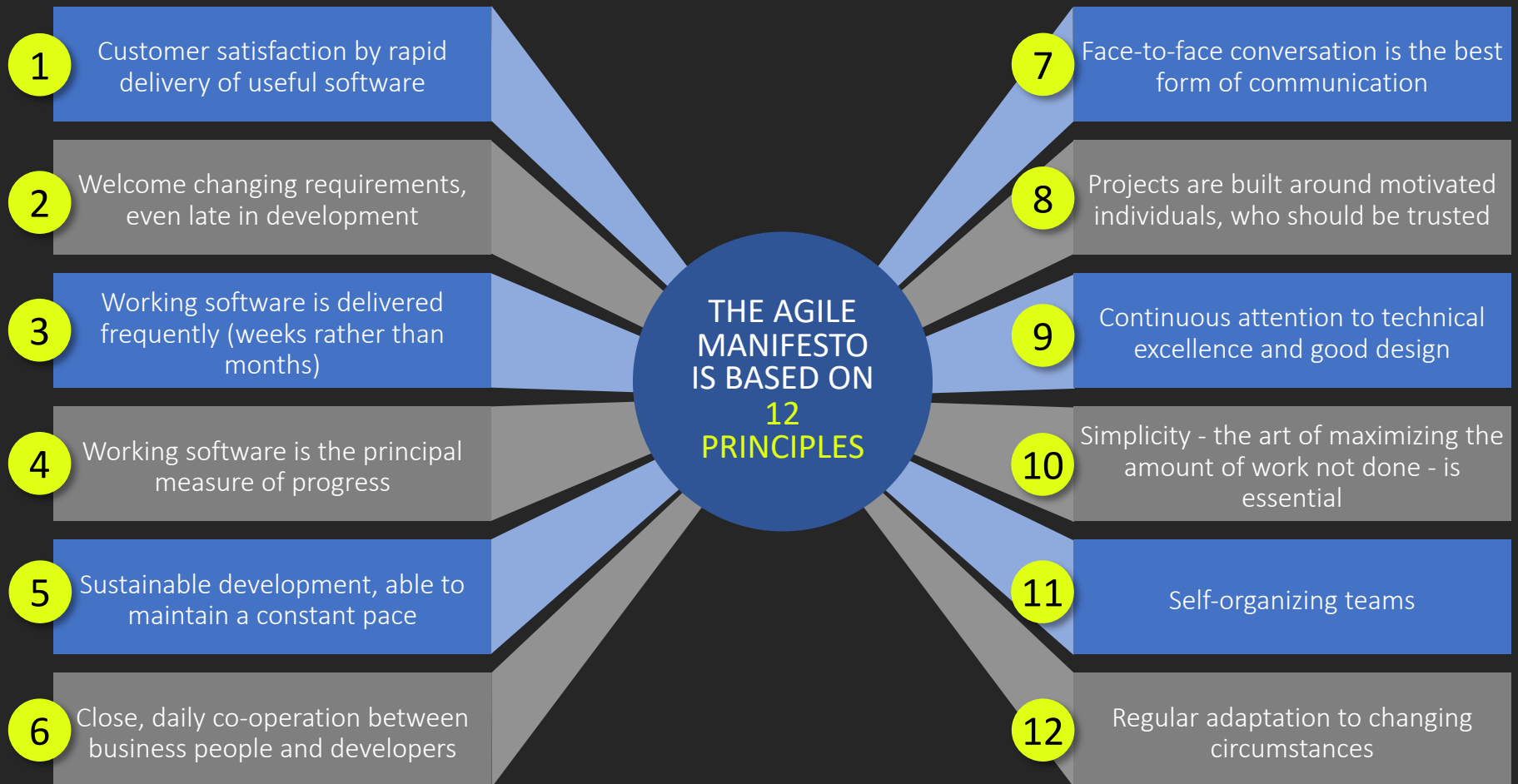


Being fast and efficient on implementing packages and changes ... Is this Agile?

Agile Product Development



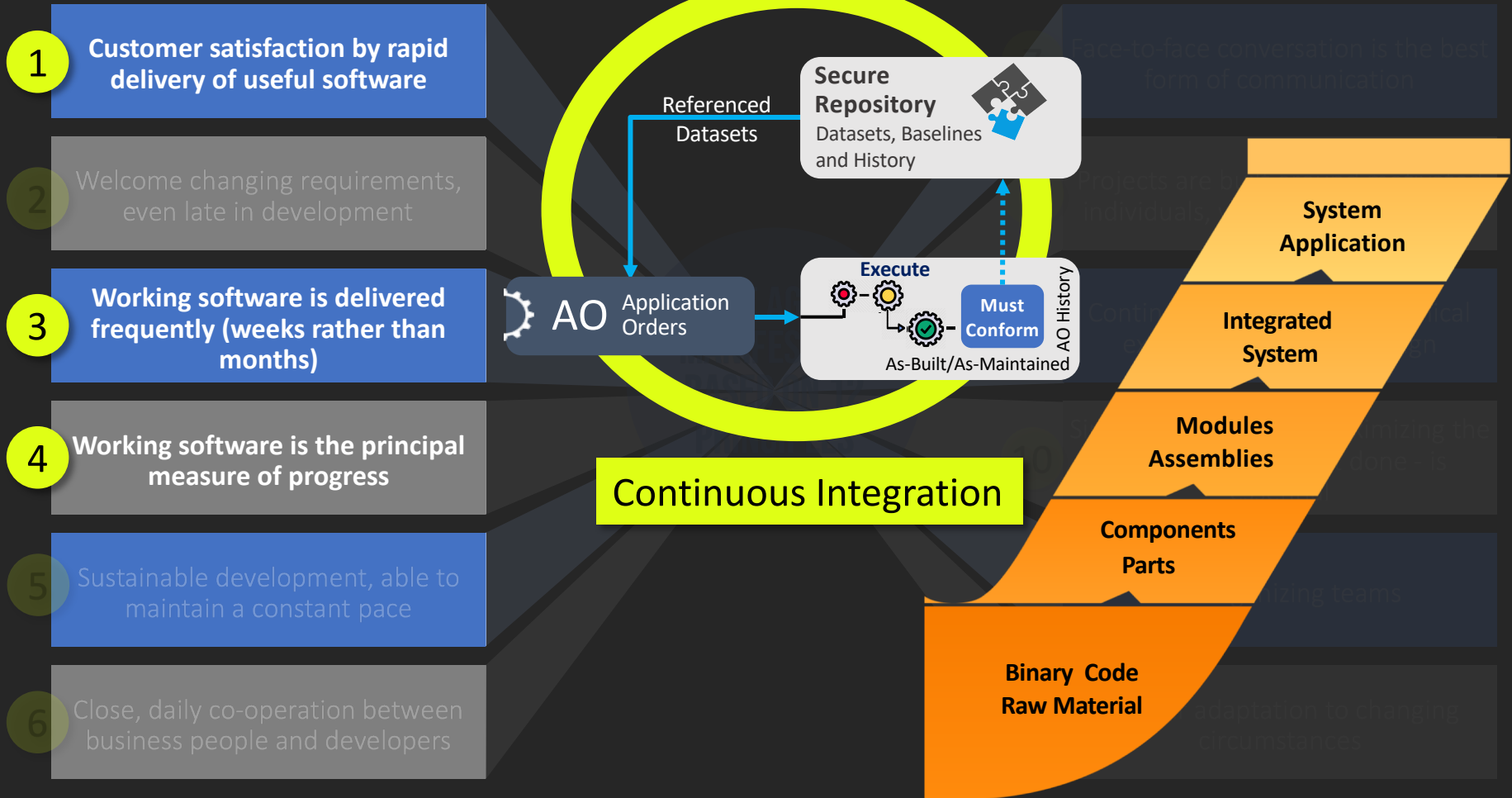
The Agile Manifesto with 12 Principles



Agile Product Development with CM2



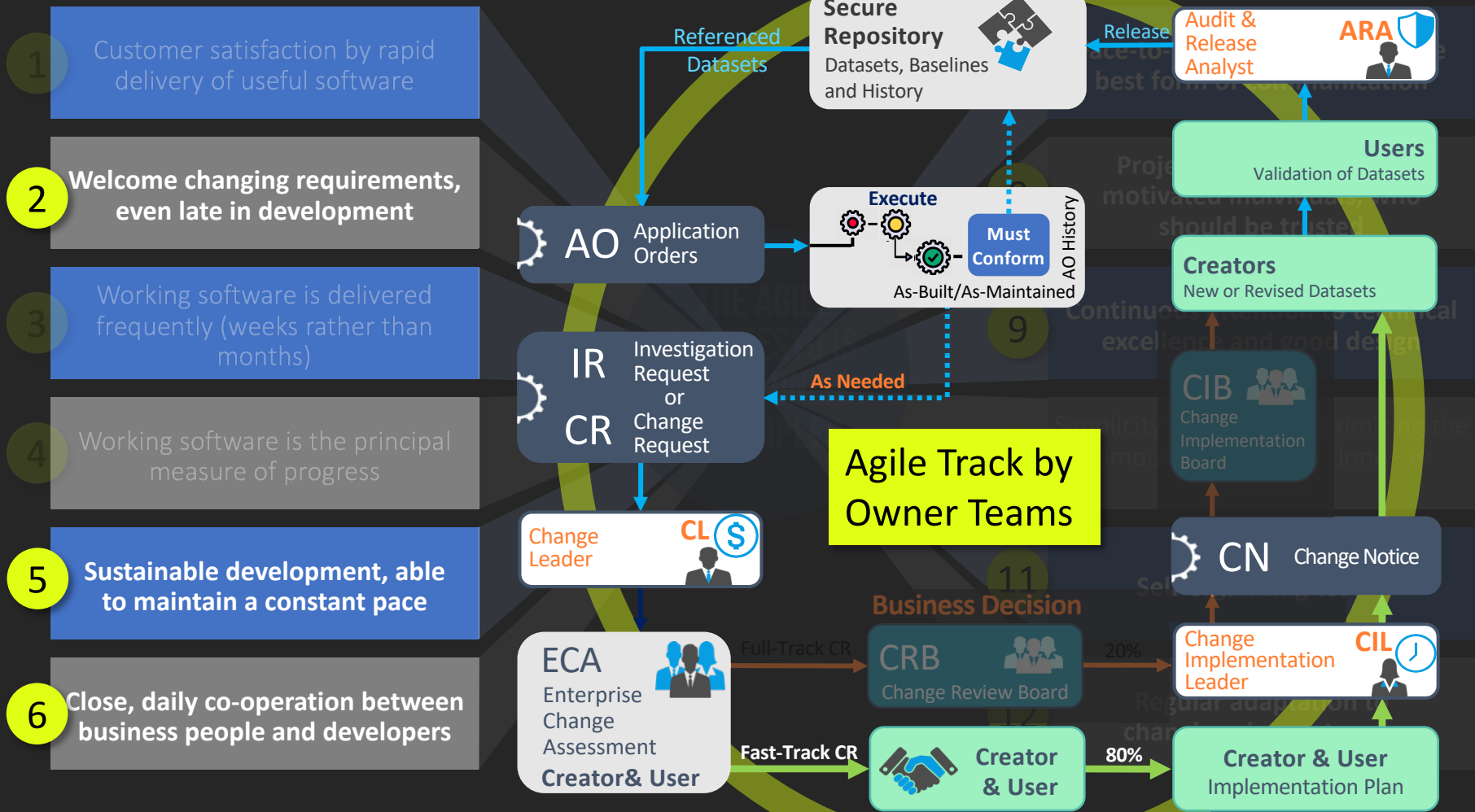
Continuous Integration using Application Orders



Agile Product Development with CM2



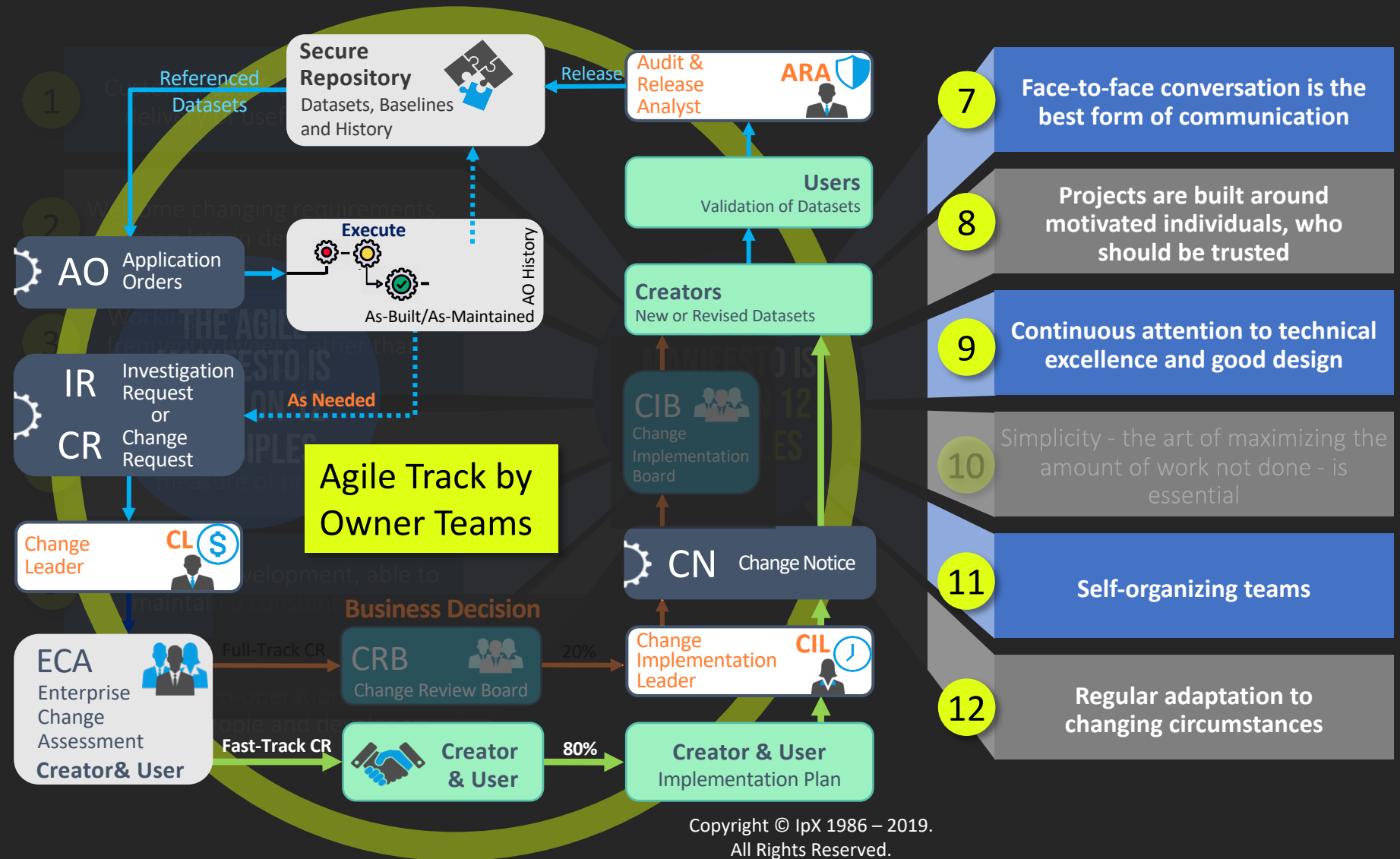
Fast-Track and Creator/User Teams or Cross-Functional Team



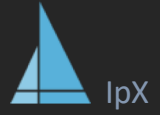
Agile Product Development with CM2



Fast-Track and Creator/User Teams or Cross-Functional Team



Agile Product Development with CM2



CM2 Baselines used for transparent and efficient Team Collaboration

1 Customer satisfaction by rapid

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1		1234	Rotor Assembly	AD	1234	B	30/Jul/yy	01/Aug/yy	00255		
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				PP	4321	A	30/Jun/yy	01/Jul/yy	00255		
				BM	4321	A	30/May/yy	01/Jul/yy	00255	D	01/Nov/yy 00300
				BM	4321	B	01/Oct/yy	01/Nov/yy		A	01/Nov/yy 00300
	1		8901	Composite	MS	8901	A	30/May/yy	01/Jun/yy	00255	D 00300
	1		8902		MS	8902	A	30/Sep/yy	01/Oct/yy		A 00300
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				BM	9880	B	01/Oct/yy	01/Nov/yy		A	00300
	1		8901	Composite	MS	8901	A	30/May/yy	01/Jun/yy	00255	D 00300
	1		8902		MS	8902	A	30/Sep/yy	01/Oct/yy		A 00300

7 Face-to-face conversation is the best form of communication

8 Projects are built around motivated individuals, who should be trusted

9 Continuous attention to technical excellence and good design

10 Simplicity - the art of maximizing the amount of work not done - is essential

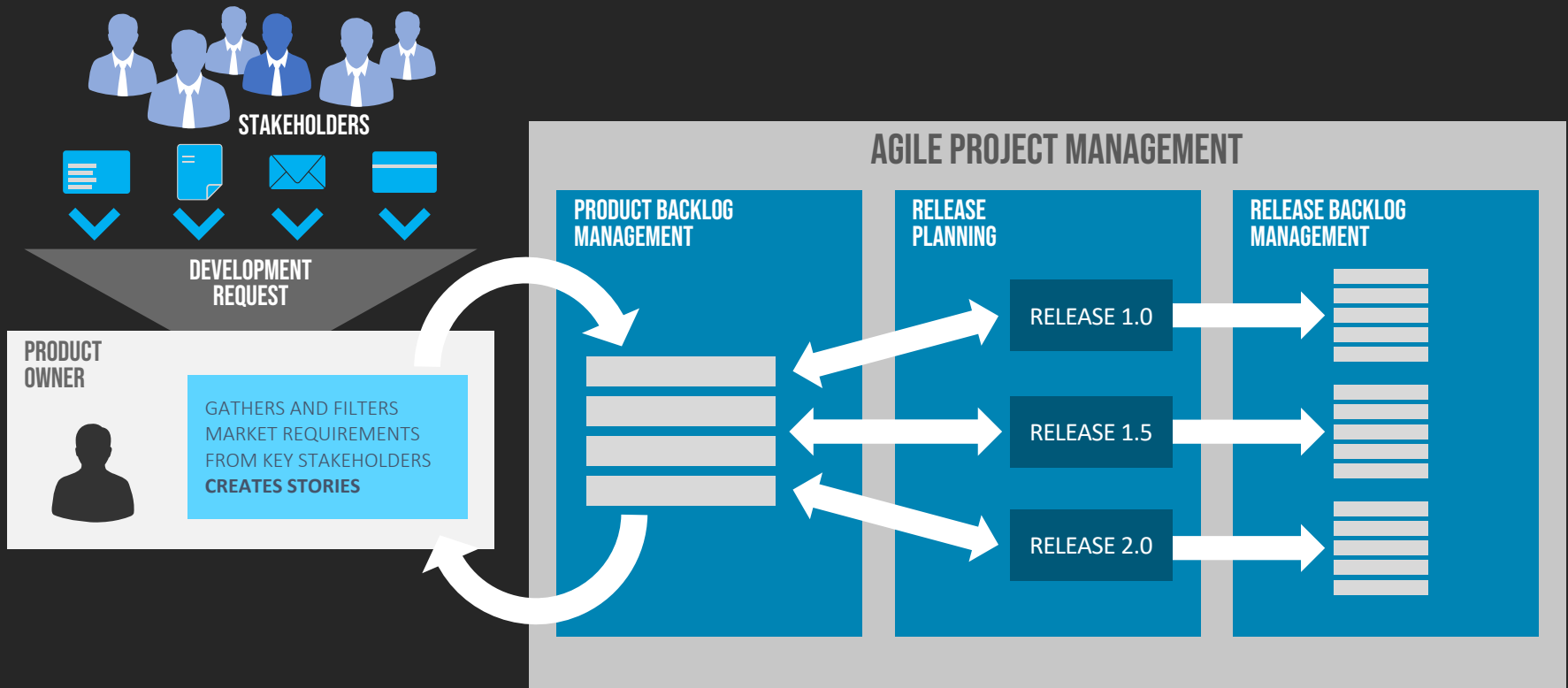
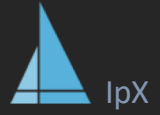
11 Self-organizing teams

12 Regular adaptation to changing circumstances

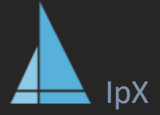
6 Close, daily co-operation between business people and developers

Agile Product Development

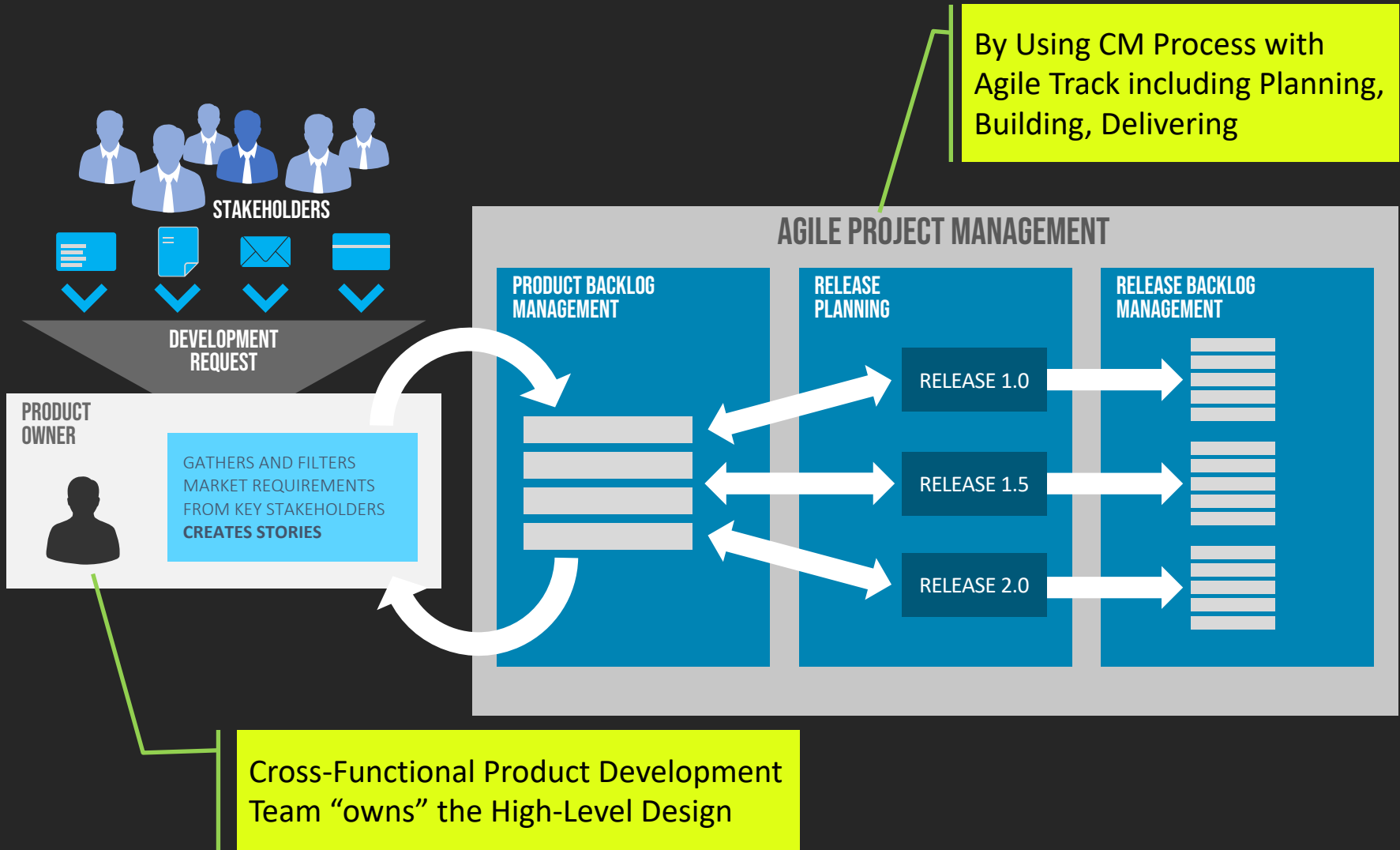
Development Process



Agile Product Development with CM2



Development Process



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Thank You

