

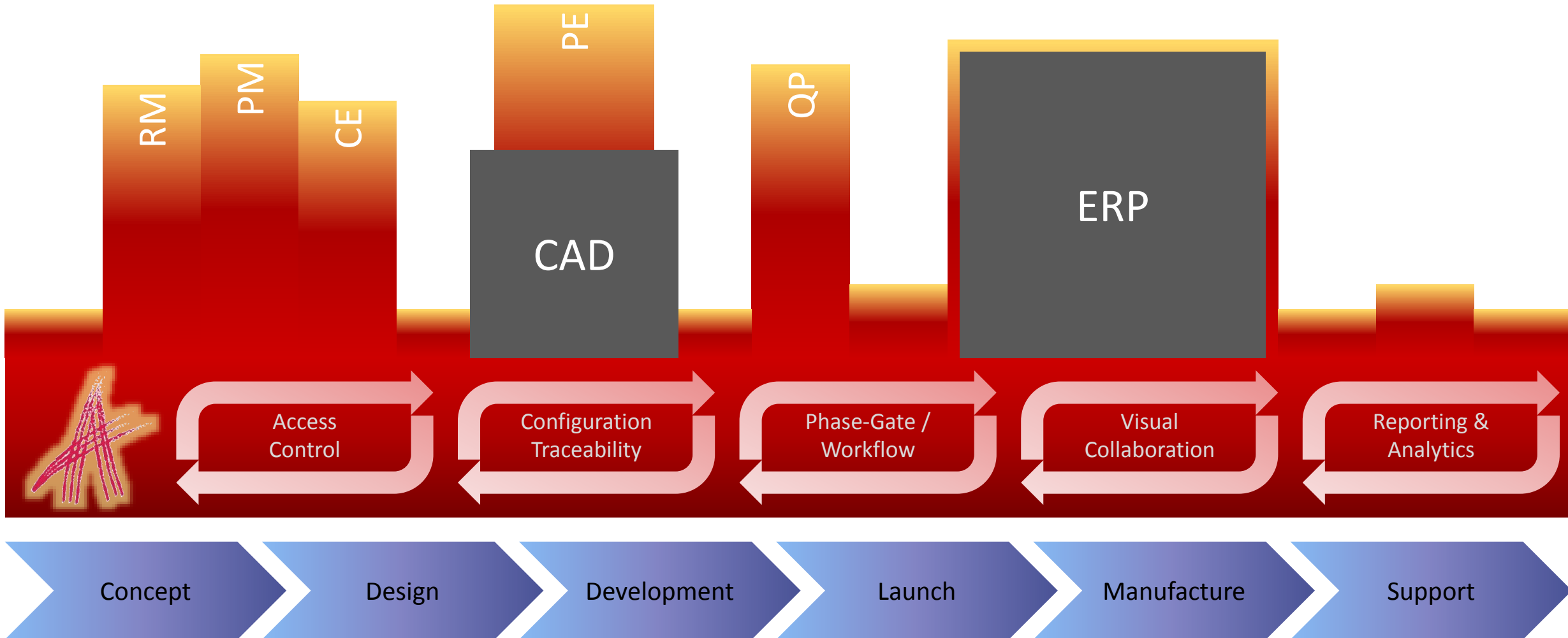
**INNOVATION**  
**WITHOUT LIMITATION**

# Aras Vision & Roadmap

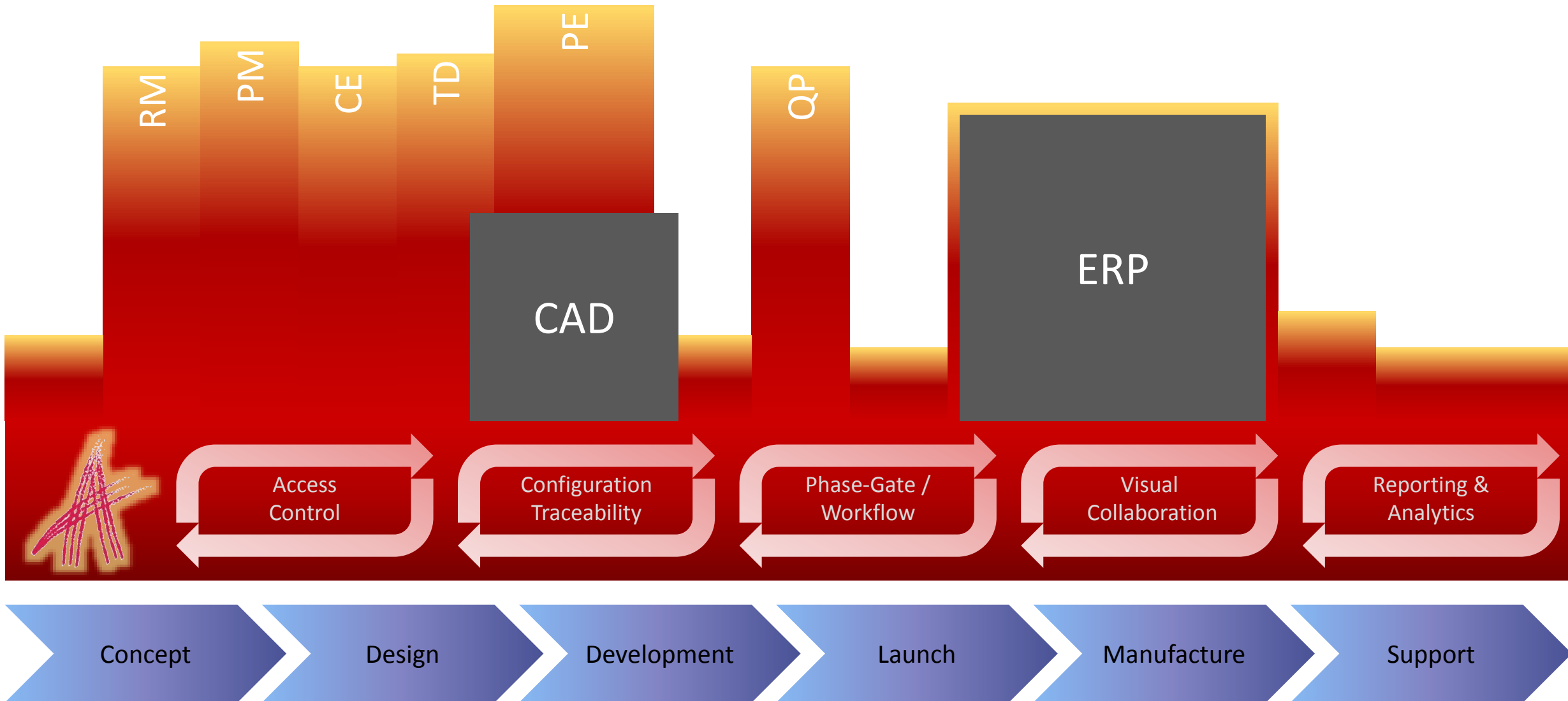
Rob McAveney

Chief Architect

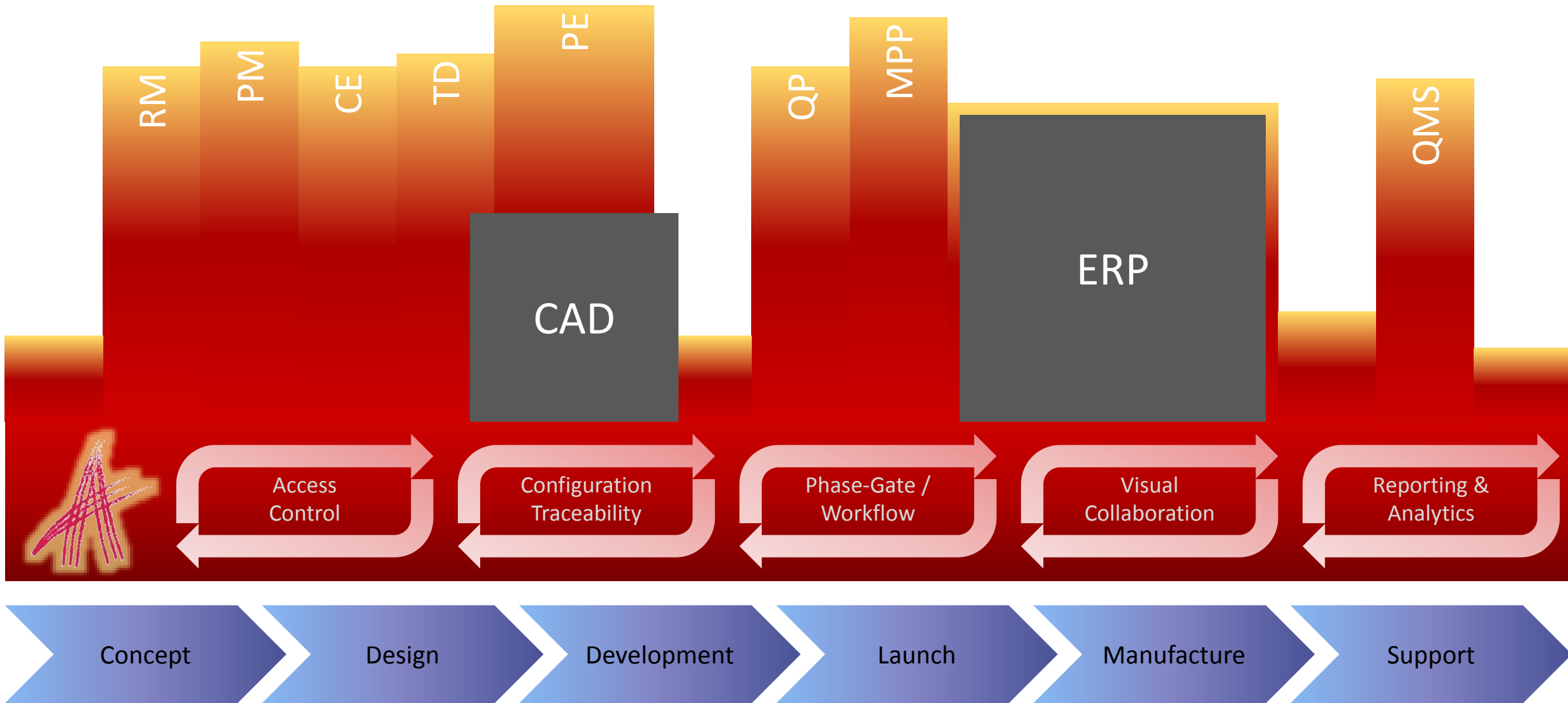
# Just Two Years Ago...



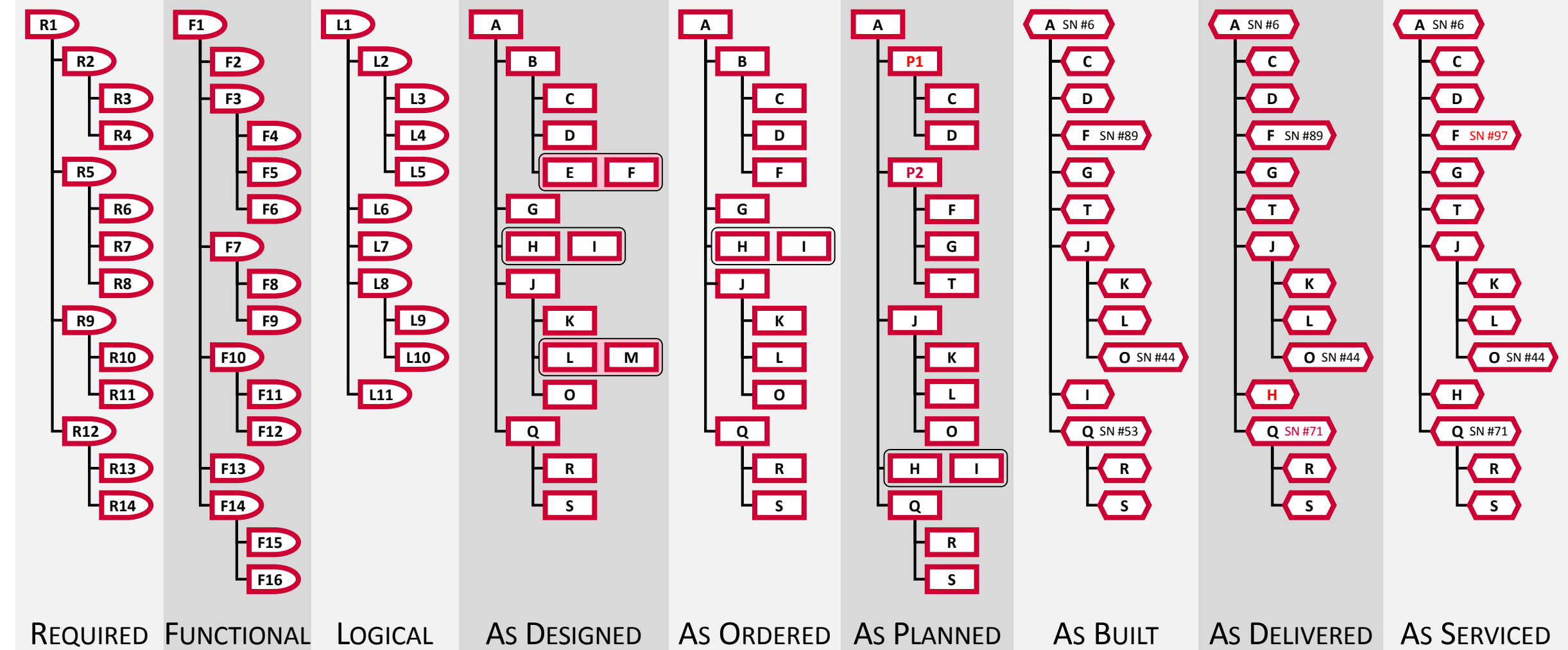
# Since then...



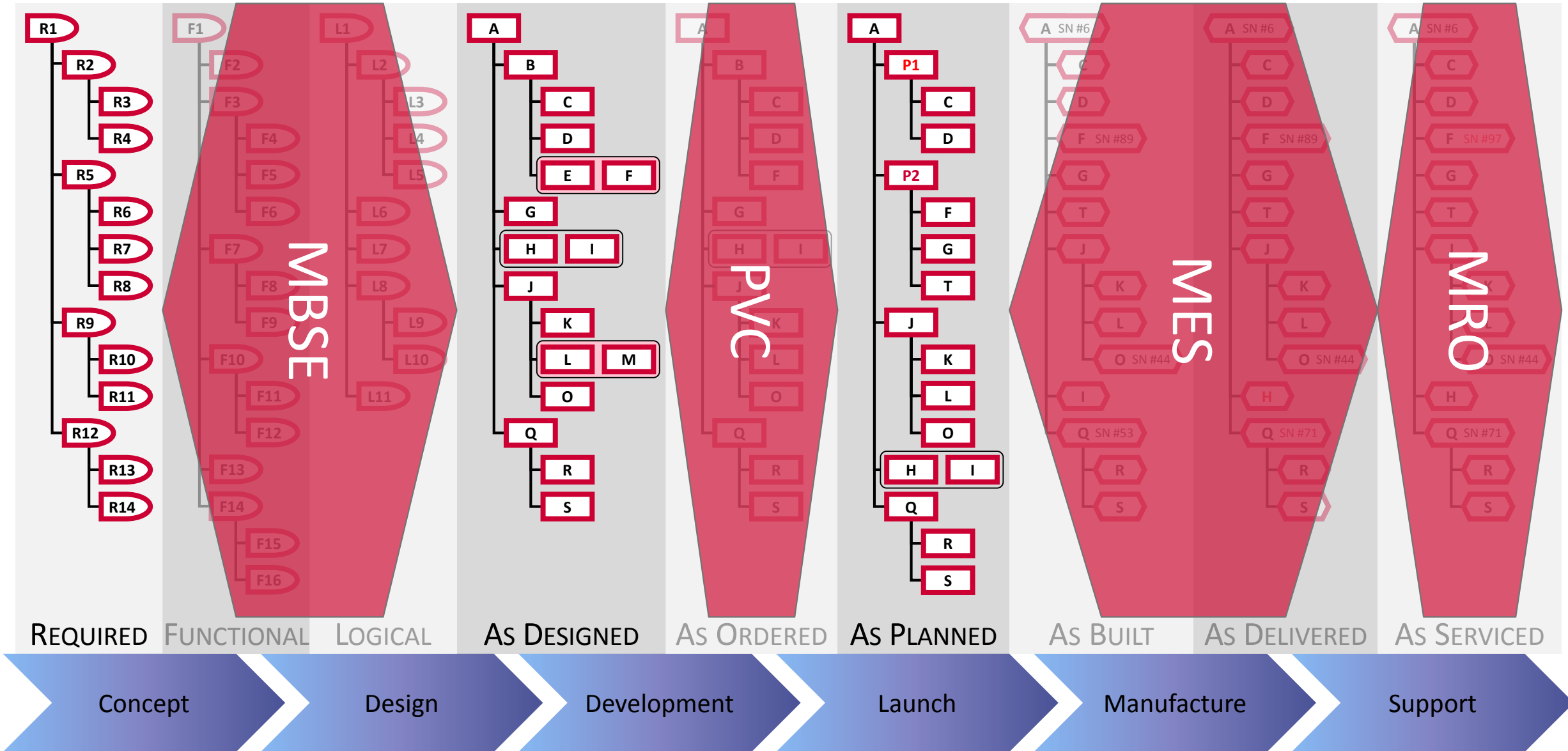
# And in just a few months...



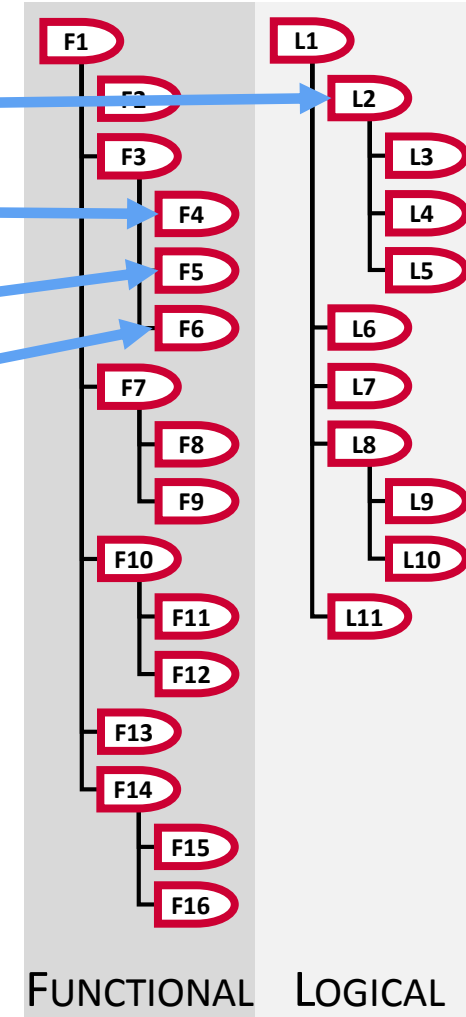
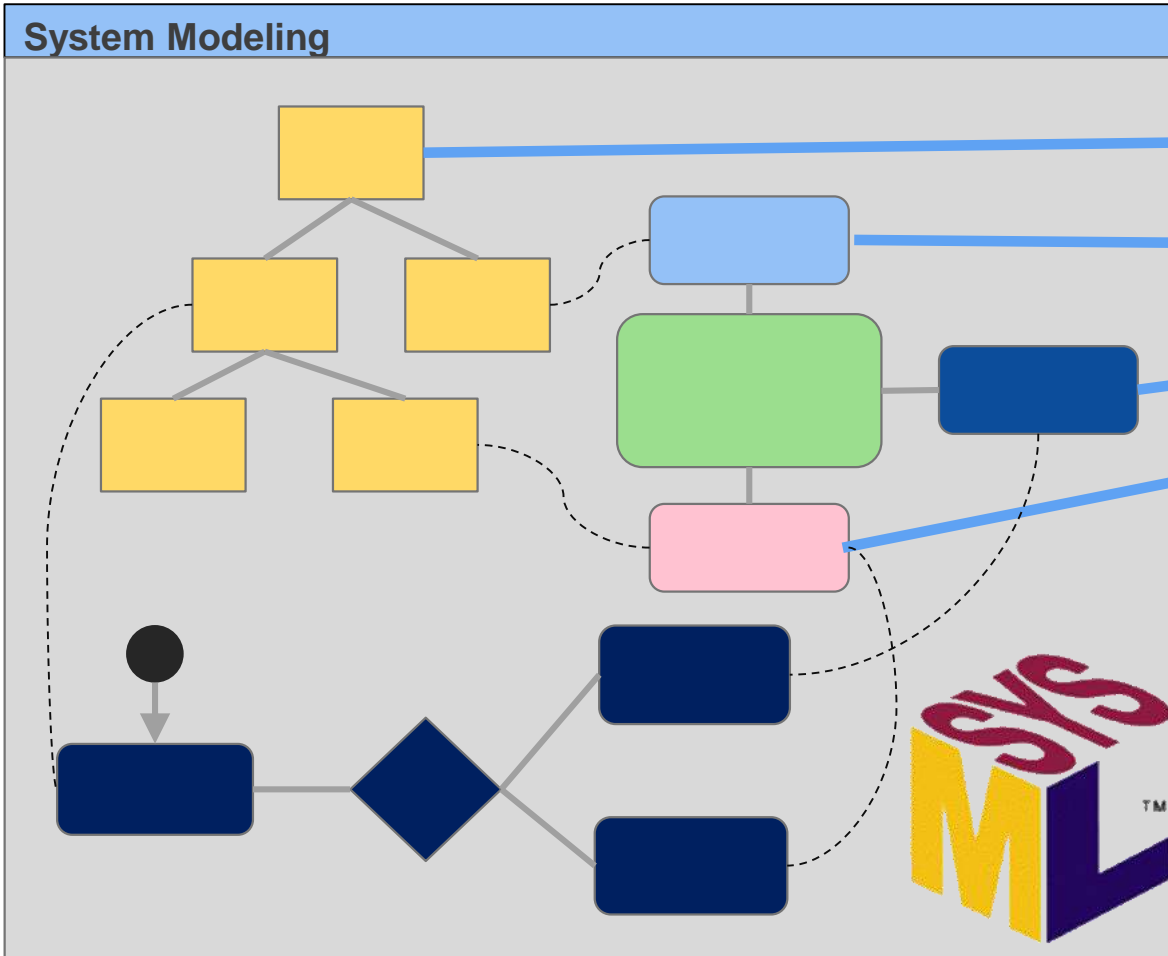
# Another View



# Filling the Gaps



# Model Based Systems Engineering

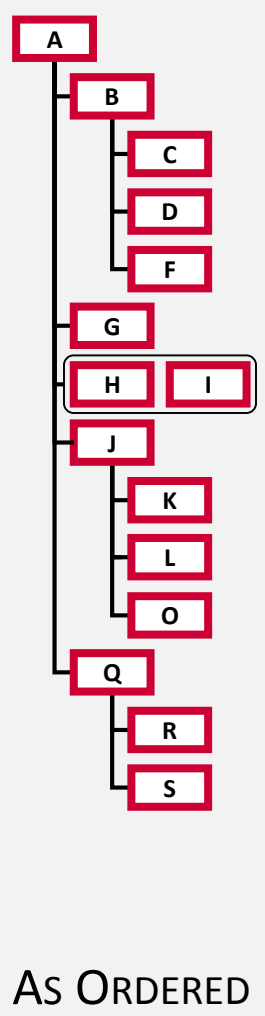
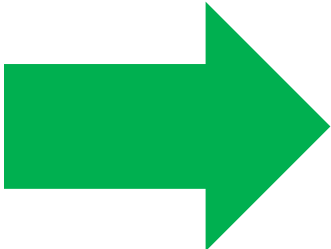
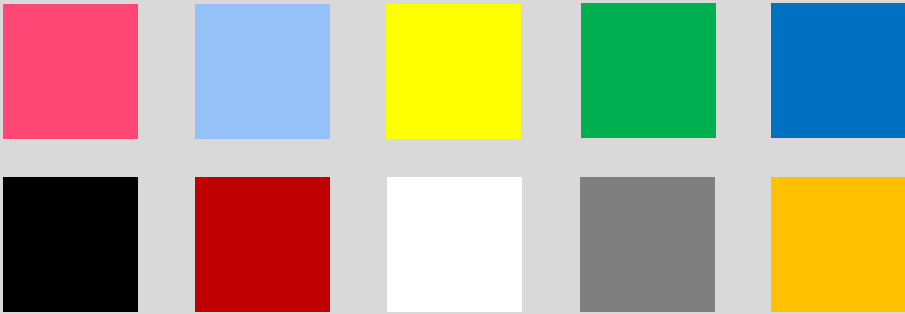




# Variant Product Configuration

Browser

- ▶ Option A
- ▶ Option B
- ▶ Option C
- ▼ Color



# Manufacturing Execution

Process Plan M01 - M01

OP10 - Assemble Drive Head

1.1 Place the Drive Gear in the Stepper Motor

Work Order #	Plant	Effective Date	Approved By	Comments
1-3403	Ashty	11/01/2015		

OP10 - Assemble Drive Head

1.1 Place the Drive Gear in the Stepper Motor

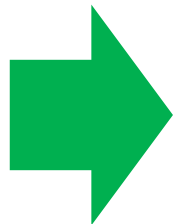
1.2 Place the drive block front on the Motor assembly

Part Number	Part Name	Type	Quantity
M1	Motor Assembly	Phantom	1
M01	Drive Block	Component	2

Tool Number	Name	Quantity
M012	Wrench	1

OP20 - Assemble Bar Mount and Thermal Barrier

2.1 Loosely thread the M6 nut onto the thermal barrier



## TRAVELER

OP10 - Assemble Drive Head

1.1 Place the Drive Gear in the Stepper Motor

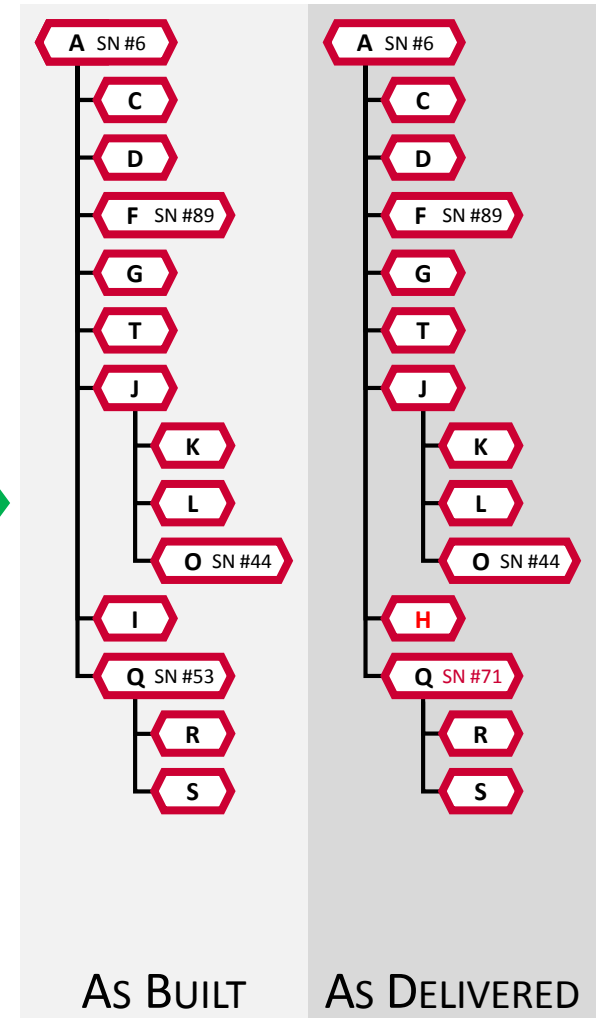
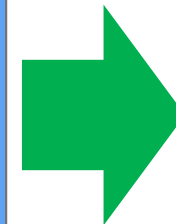
1.2 Place the drive block front on the Motor assembly

Part Number	Part Name	Type	Quantity
M1	Motor Assembly	Phantom	1
M01	Drive Block	Component	2

Tool Number	Name	Quantity
M012	Wrench	1

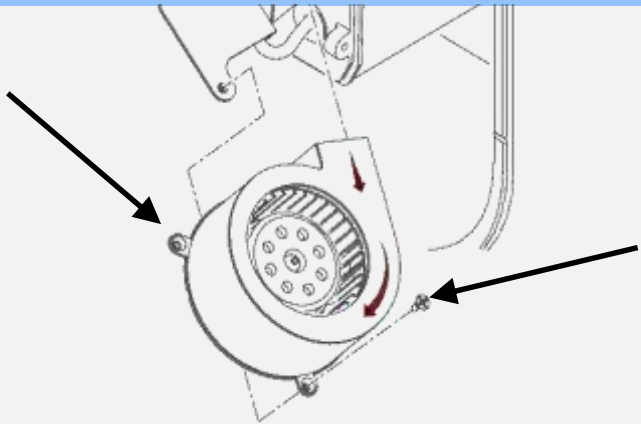
OP20 - Assemble Bar Mount and Thermal Barrier

2.1 Loosely thread the M6 nut onto the thermal barrier



# Maintenance, Repair & Overhaul

## Rear Fan Replacement



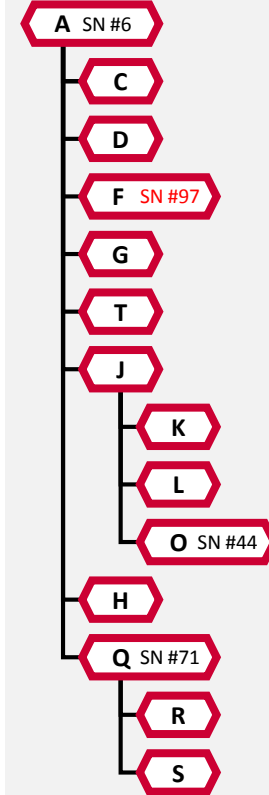
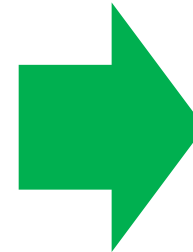
5. Remove the old fan unit

6. Insert the new fan unit. Record the serial number:

**D4218220**

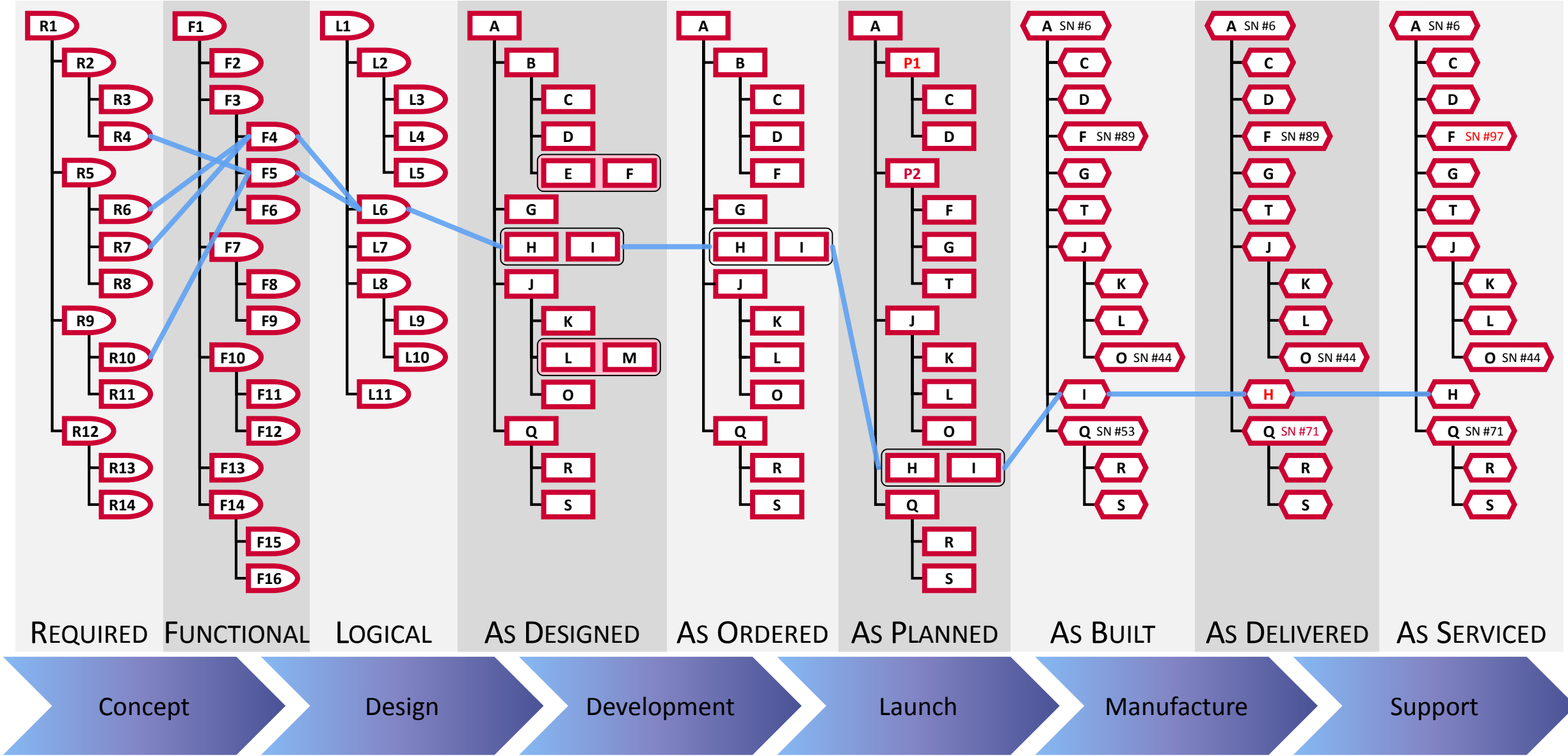
7. Insert two (2) 6-32 x ¼" PPSS Screws. Torque to a minimum of 20 lb-ft. Actual torque:

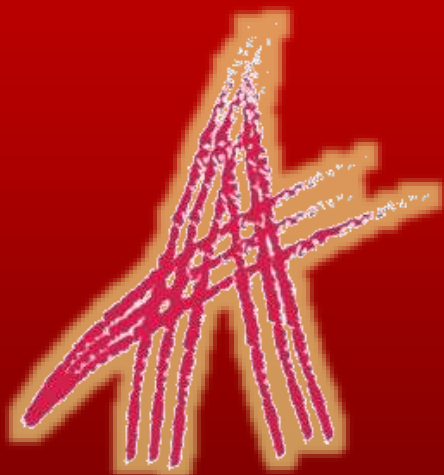
**24 lb-ft**



AS SERVICED

# The Goal: Full Lifecycle Traceability

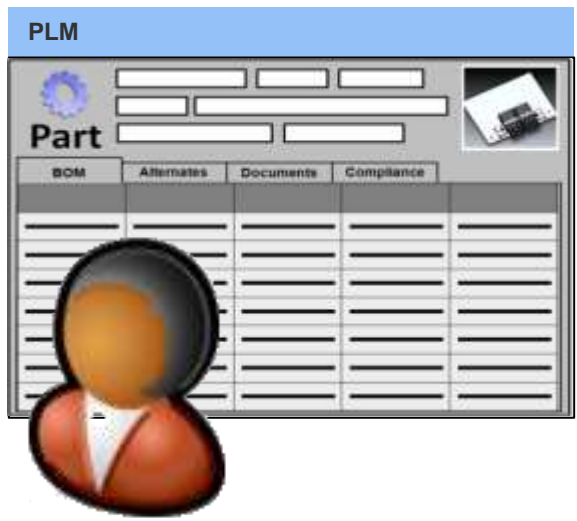
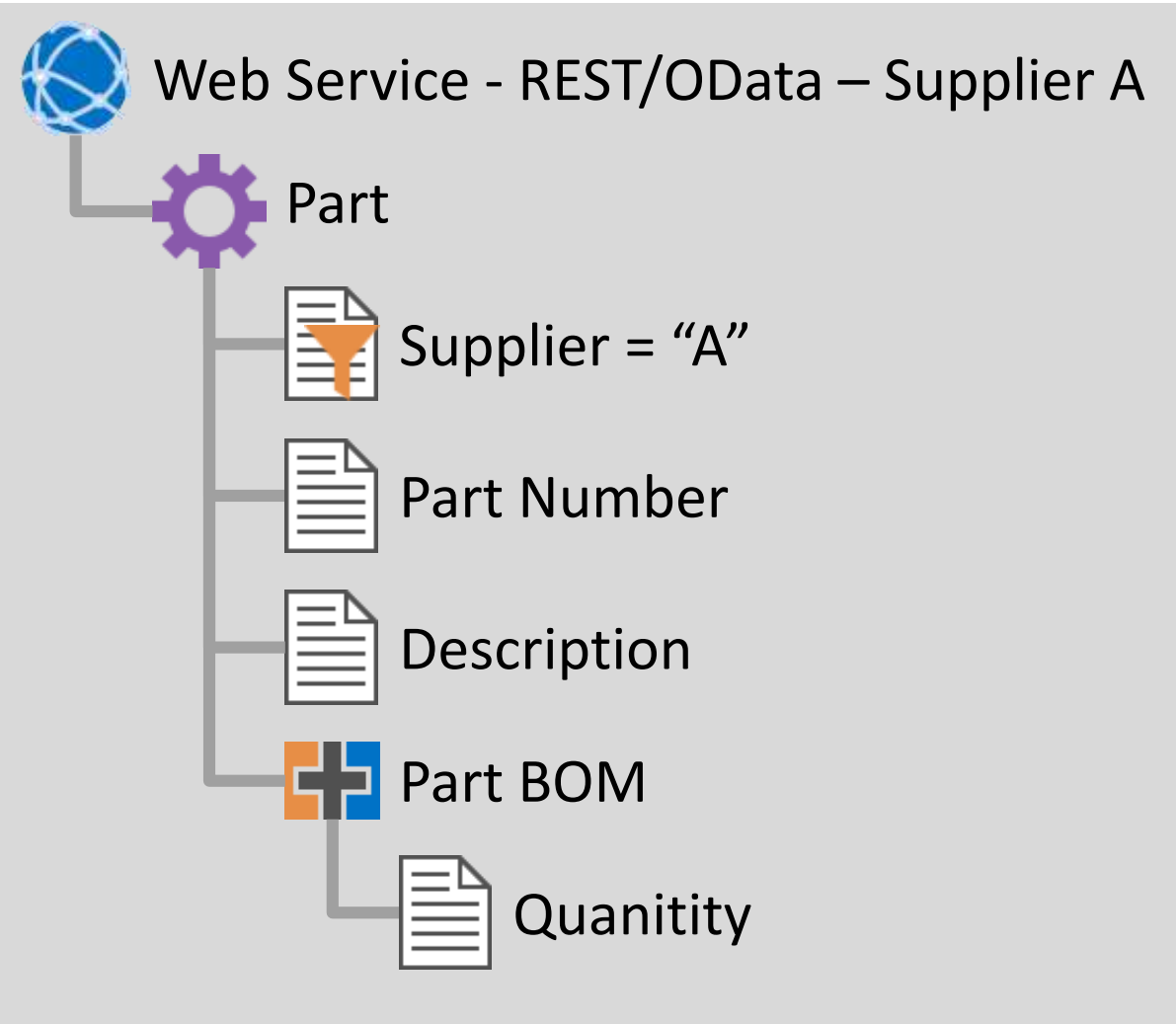




# PLATFORM Services



# Web Service Publish



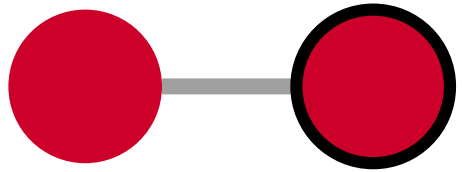
# Branch & Merge

Current state of PLM market



# Branch & Merge

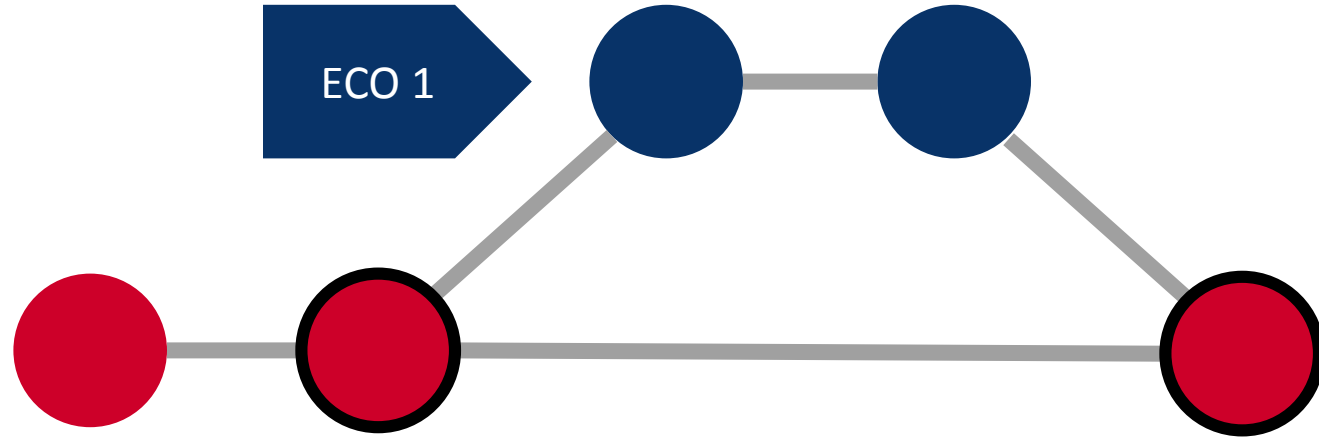
Where Aras is headed





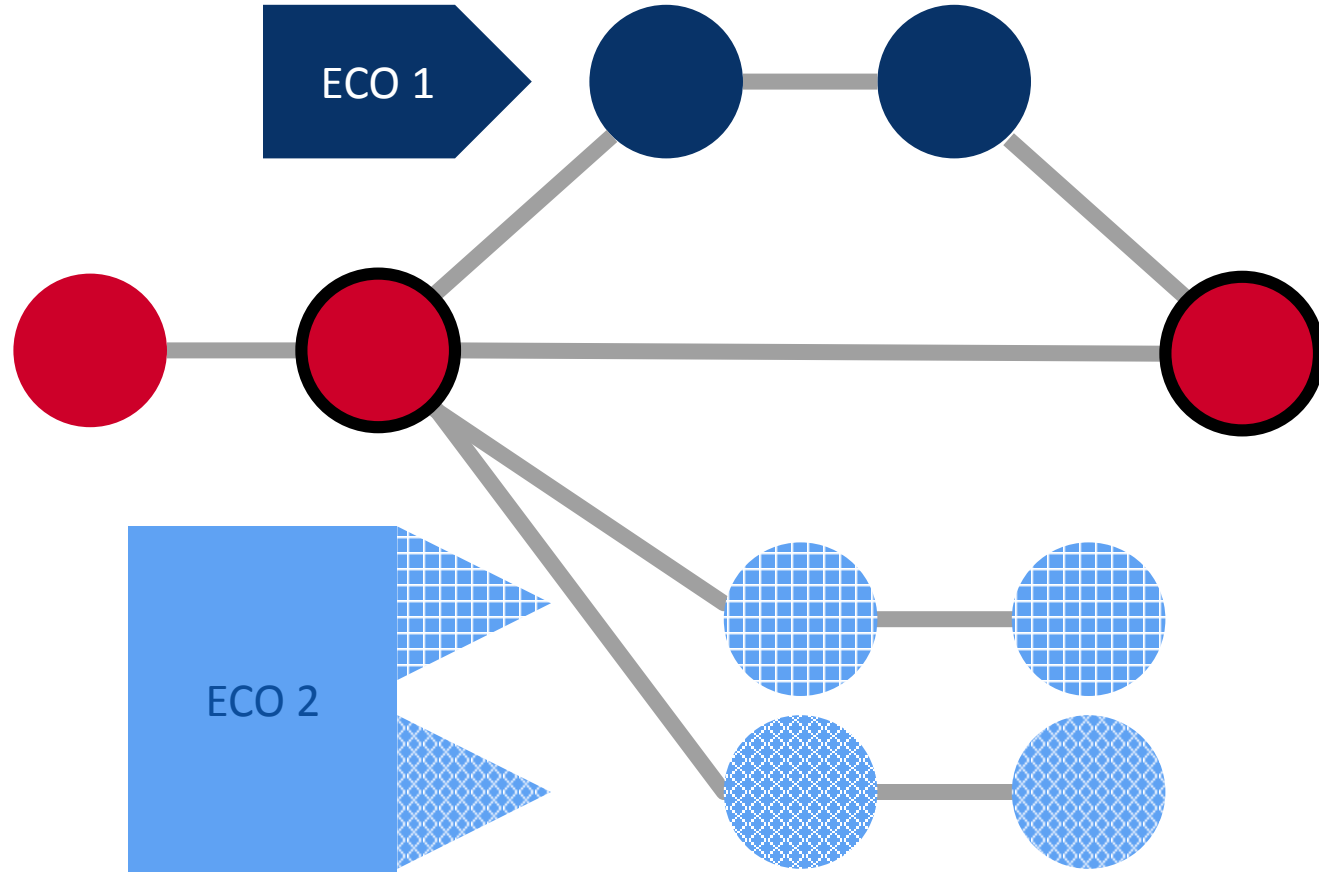
# Branch & Merge

Where Aras is headed



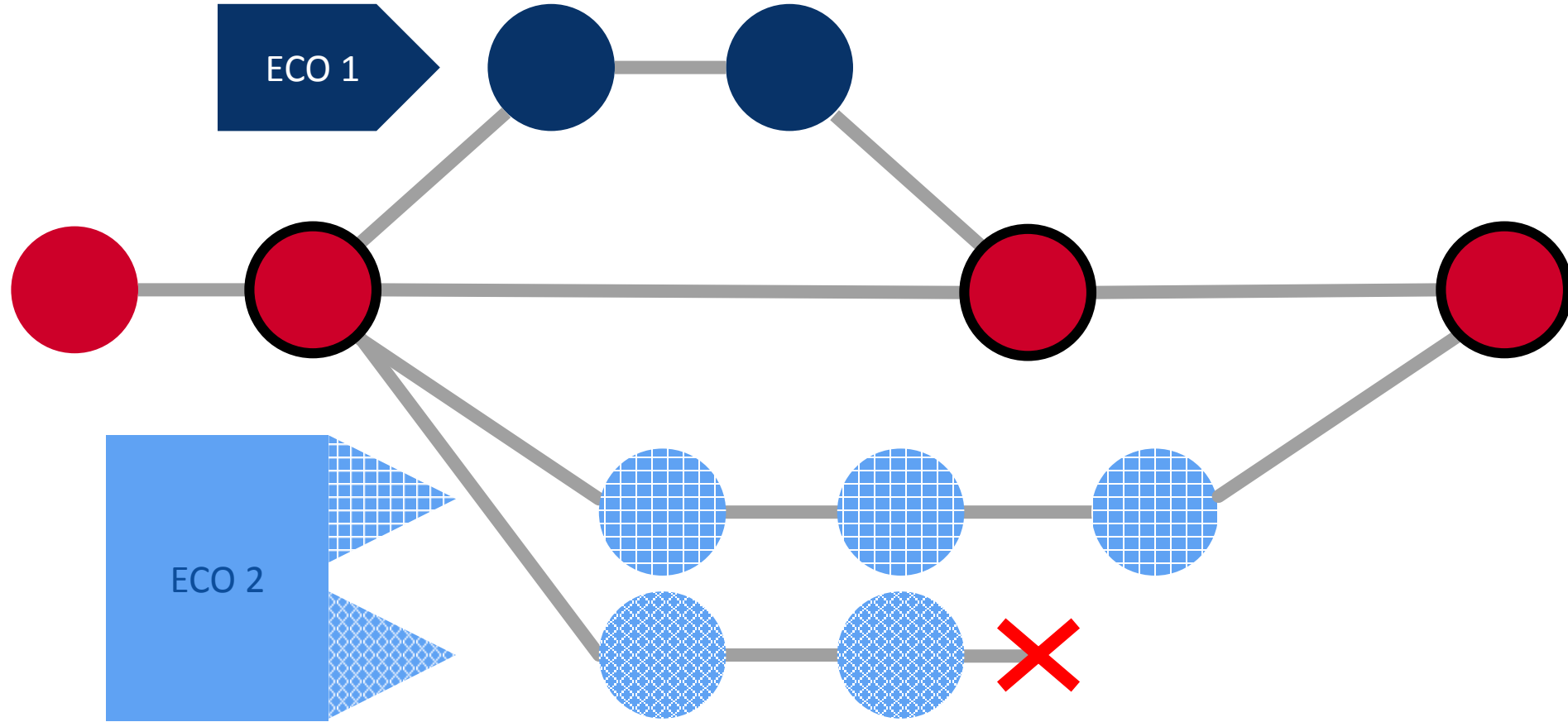
# Branch & Merge

Where Aras is headed



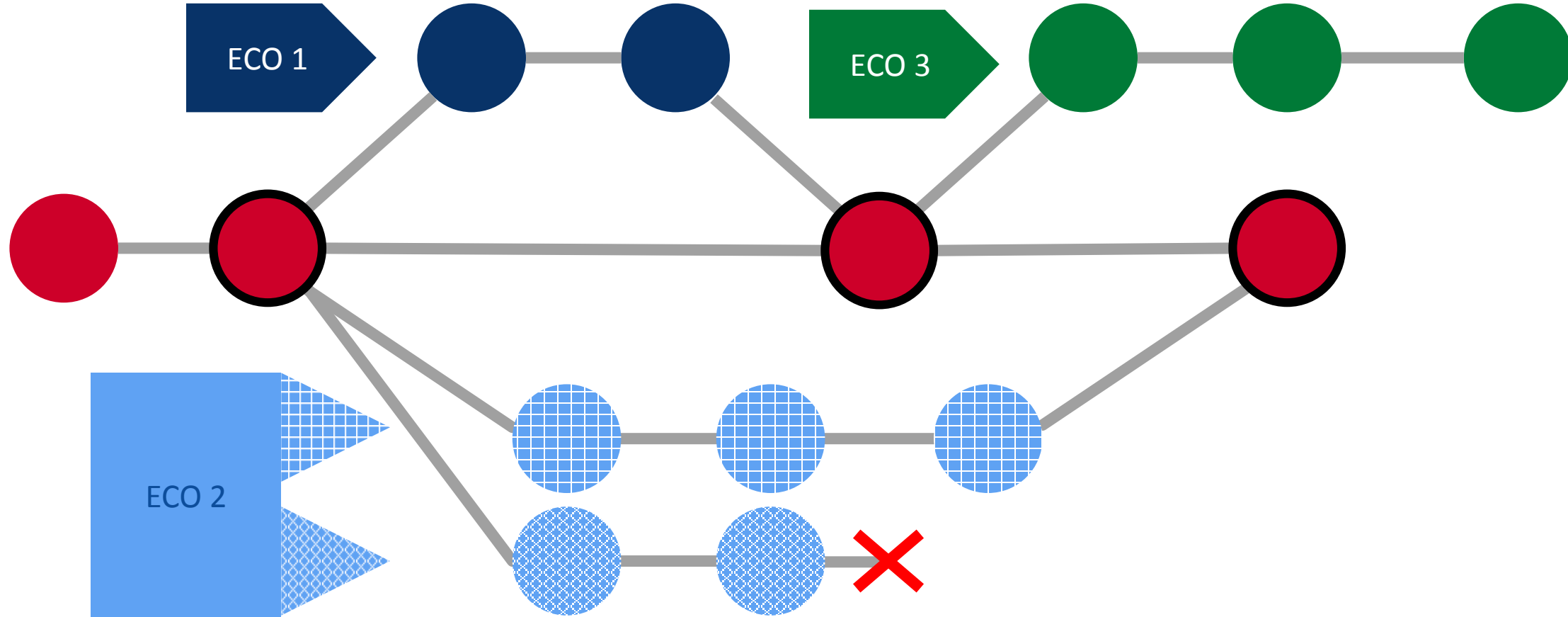
# Branch & Merge

Where Aras is headed



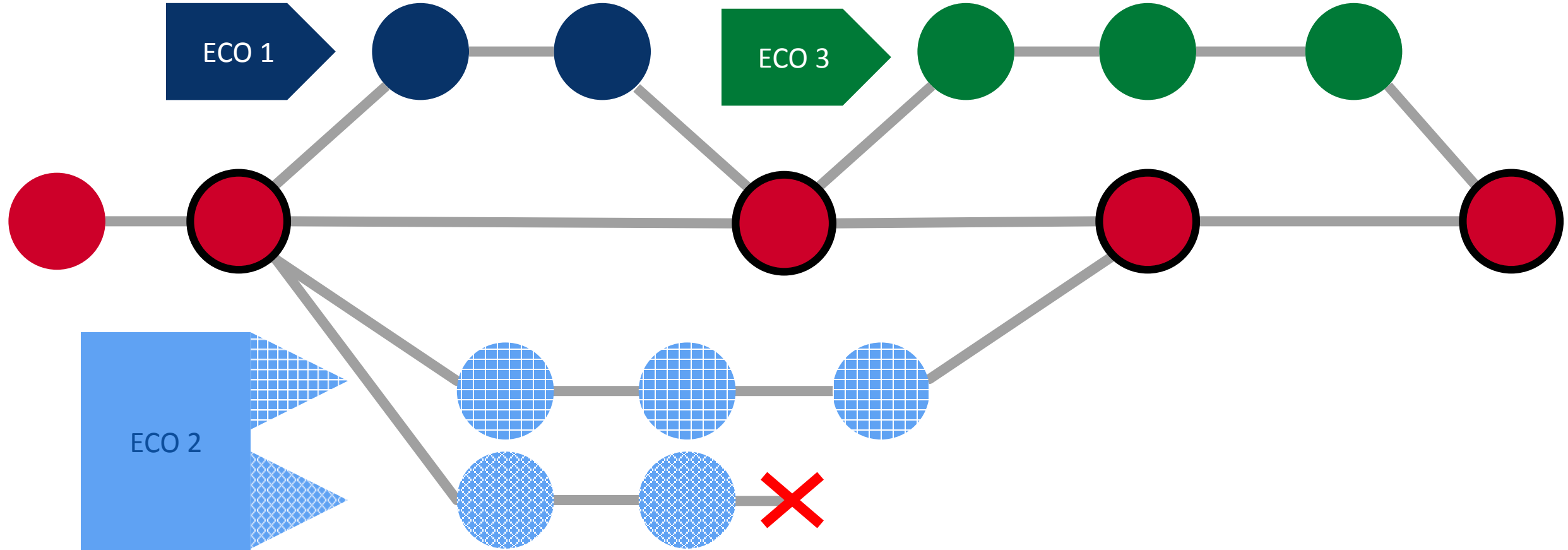
# Branch & Merge

Where Aras is headed

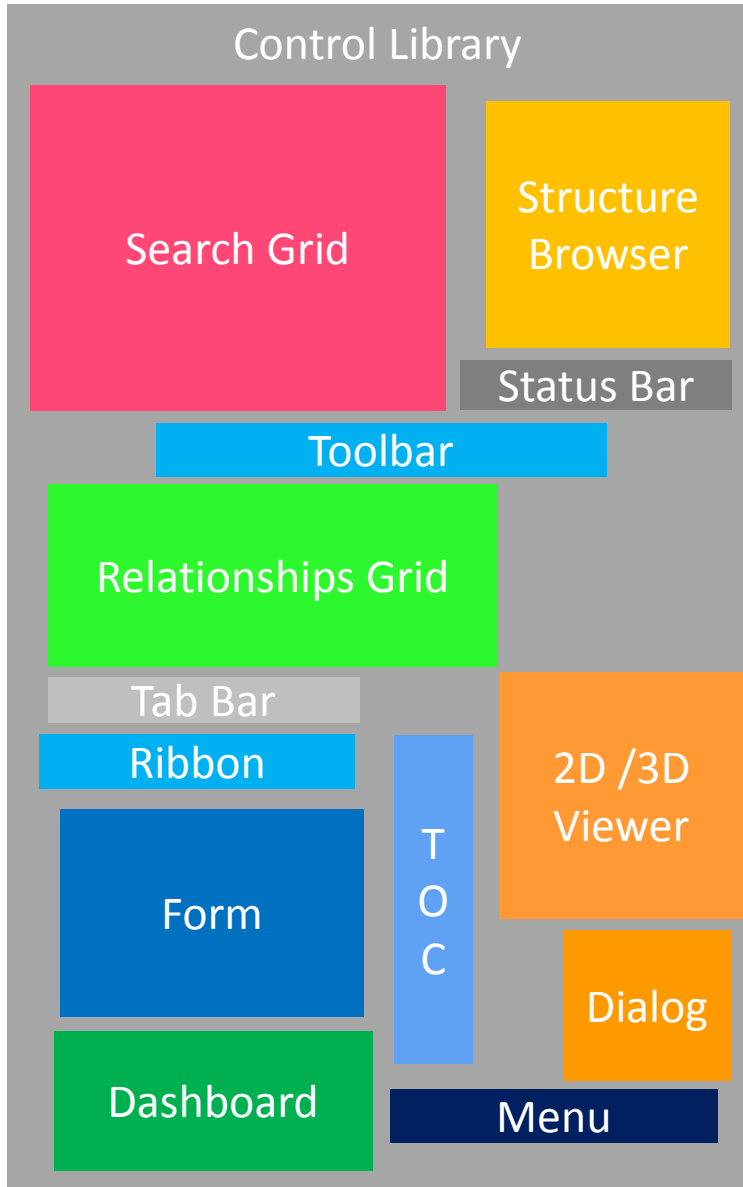


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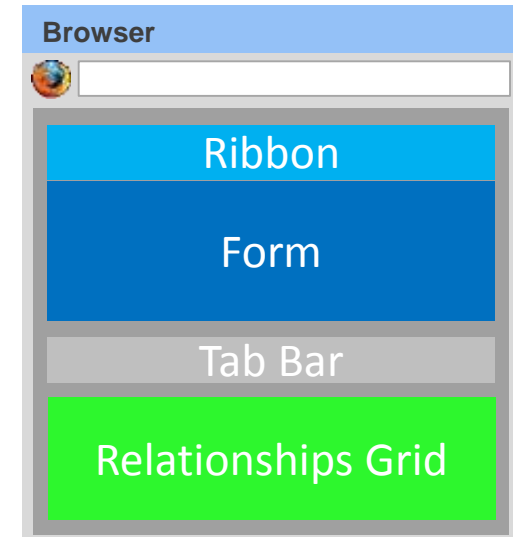
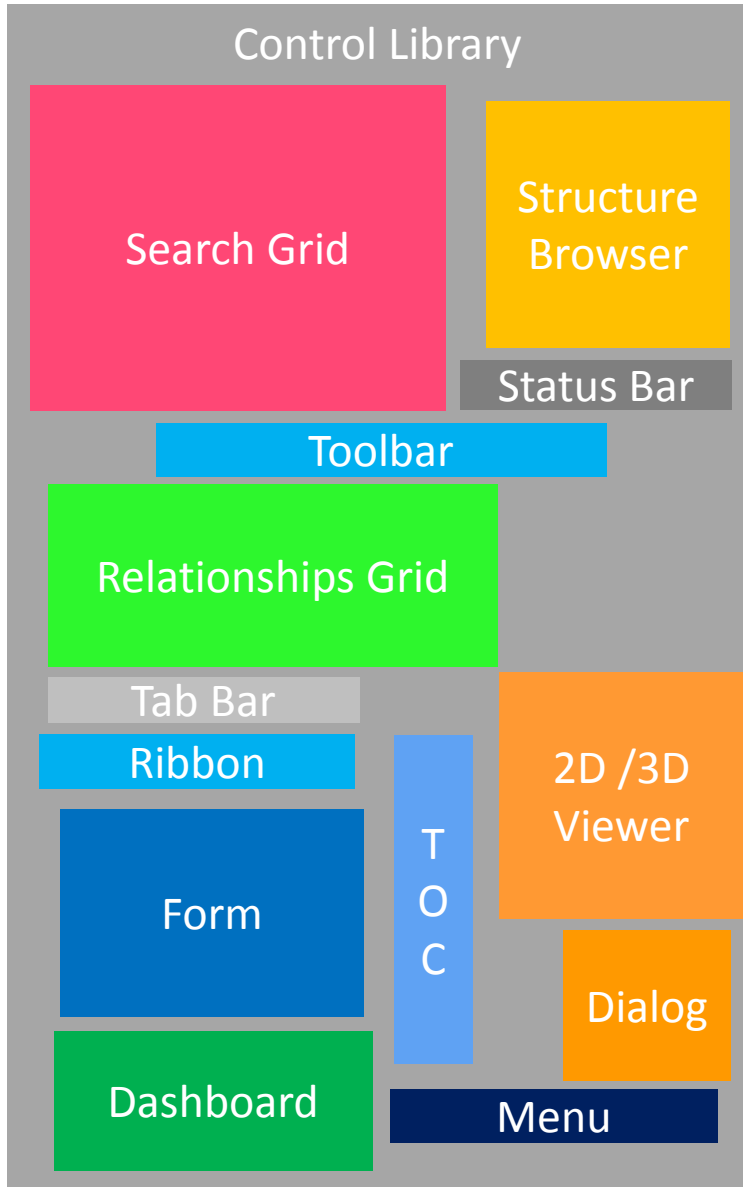
Where Aras is headed



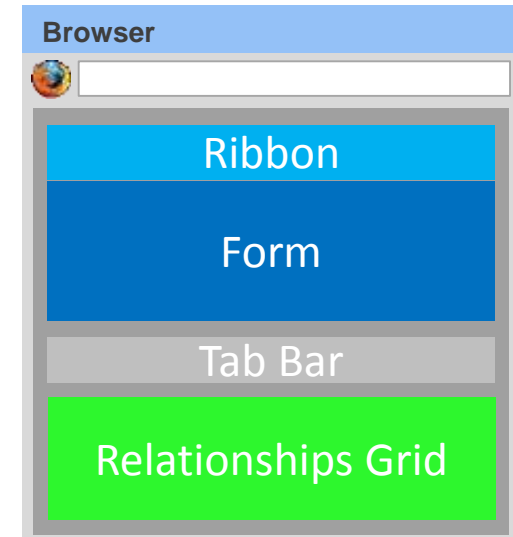
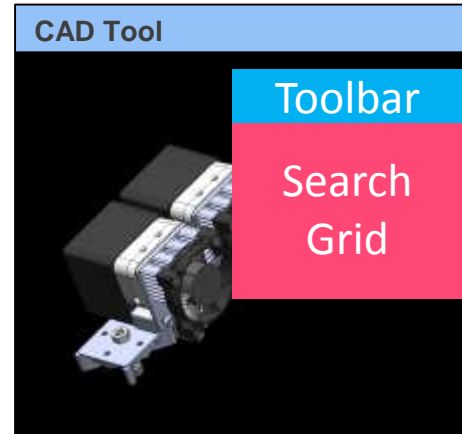
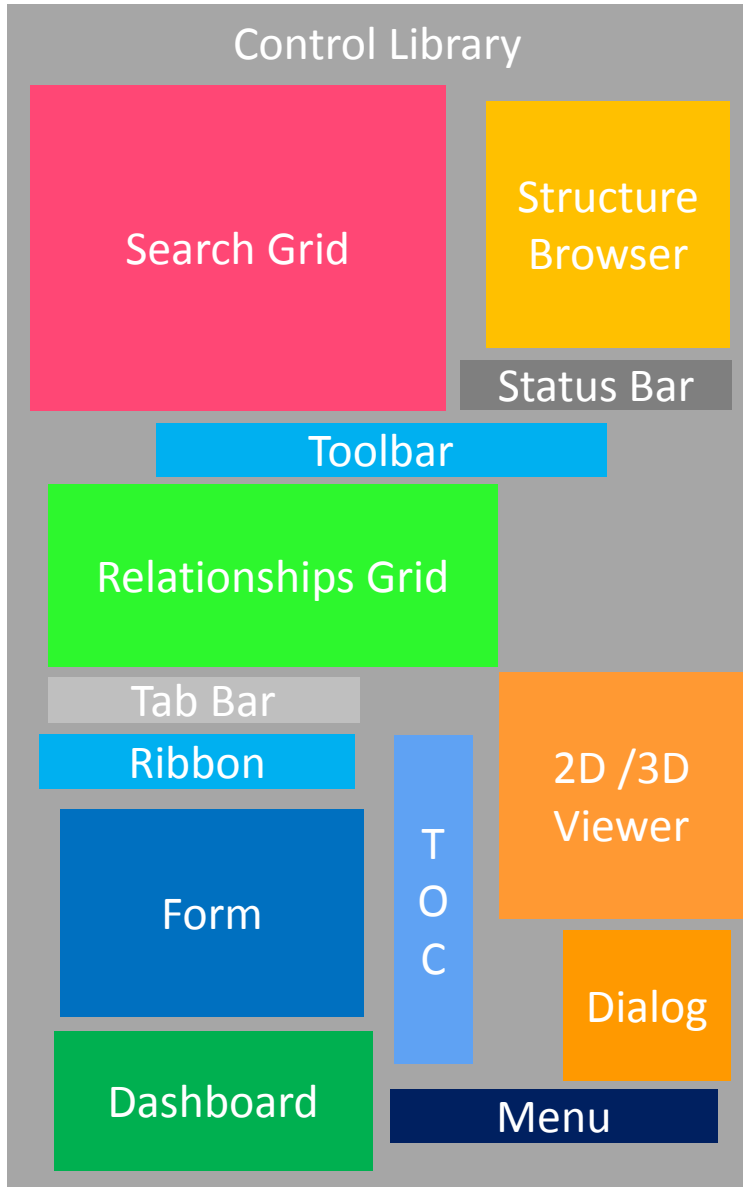
# User Interface Toolkit



# User Interface Toolkit

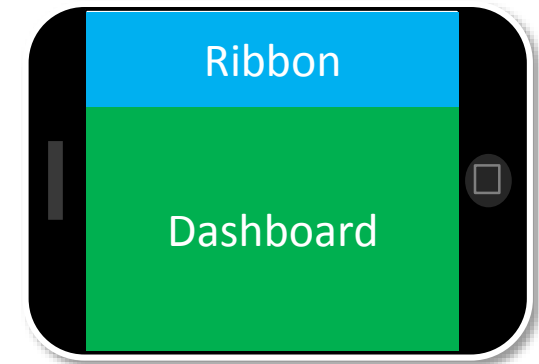
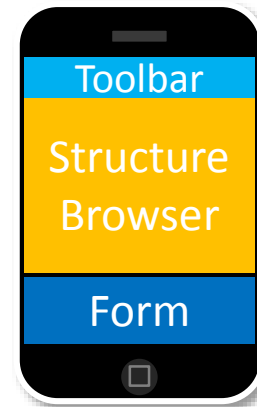
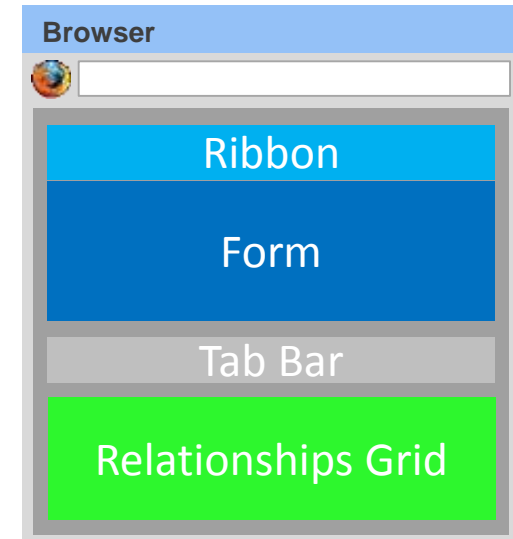
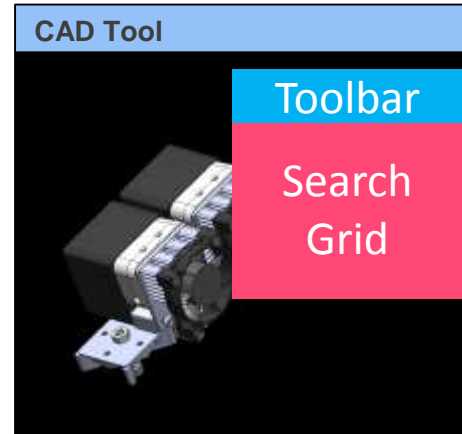
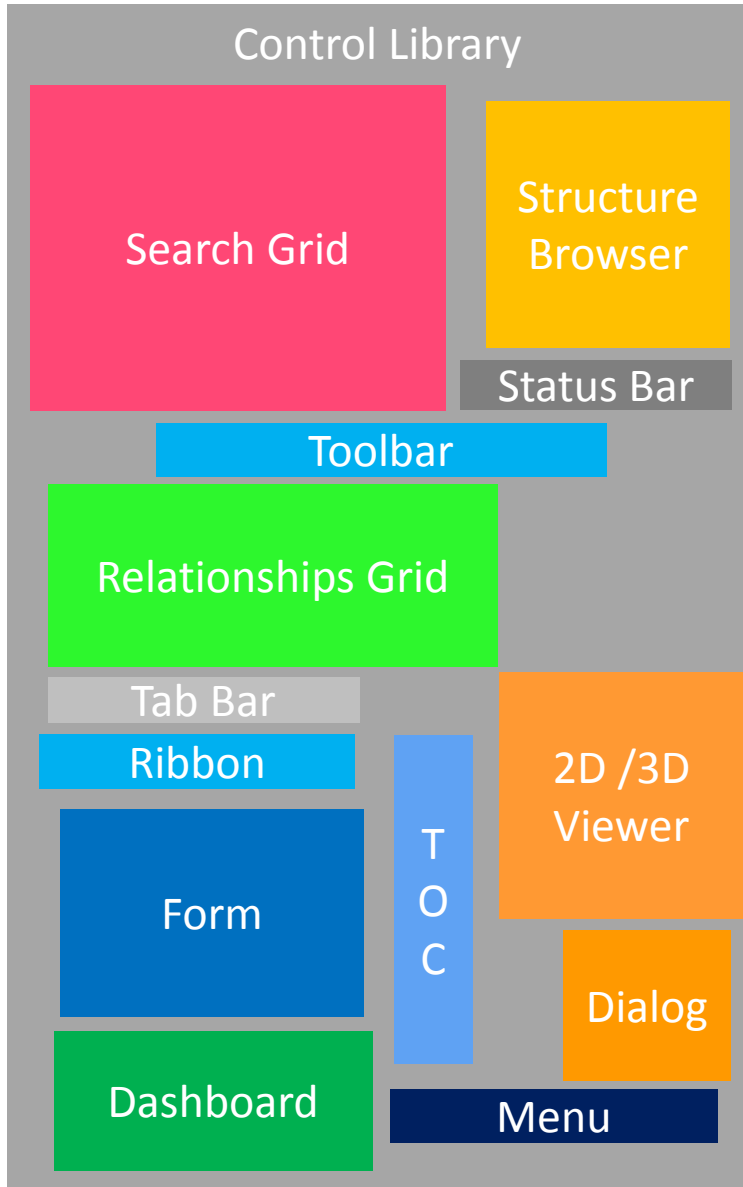


# User Interface Toolkit

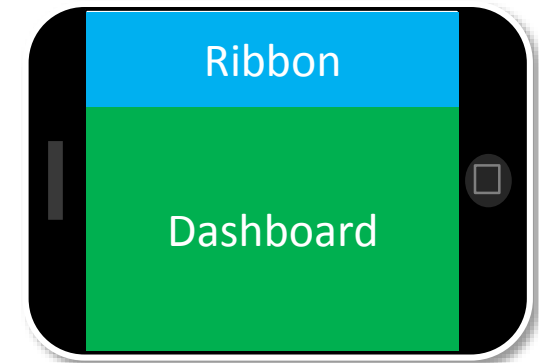
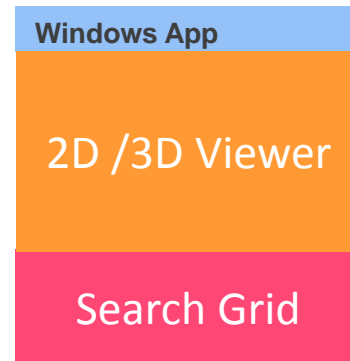
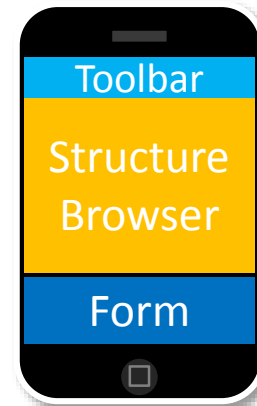
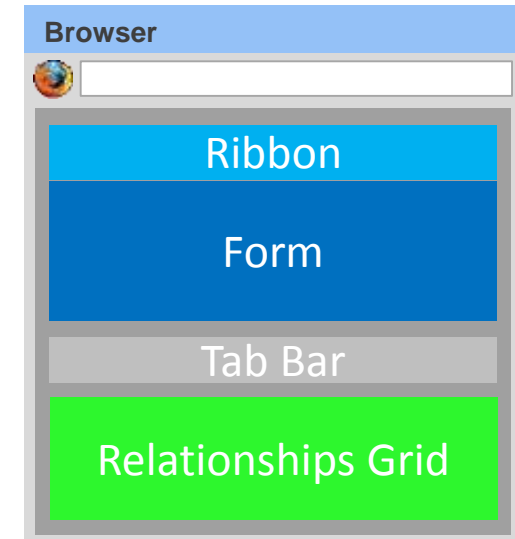
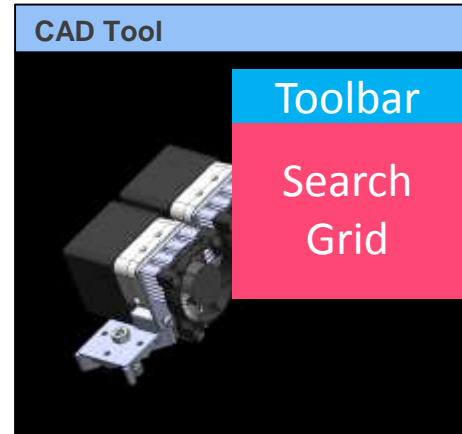
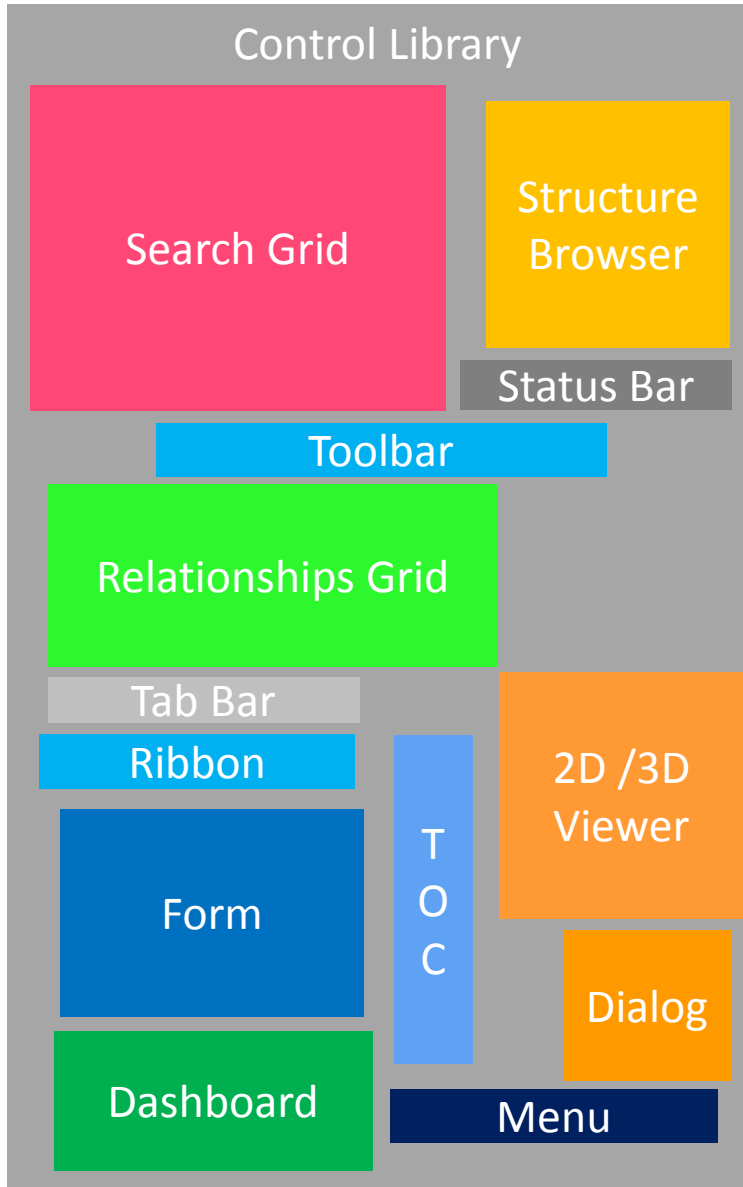




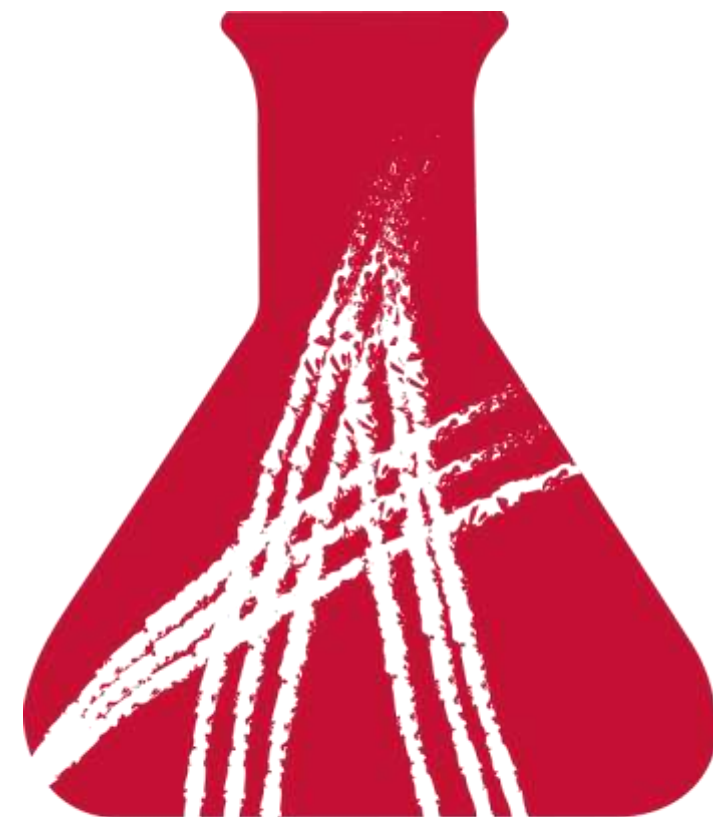
# User Interface Toolkit



# User Interface Toolkit

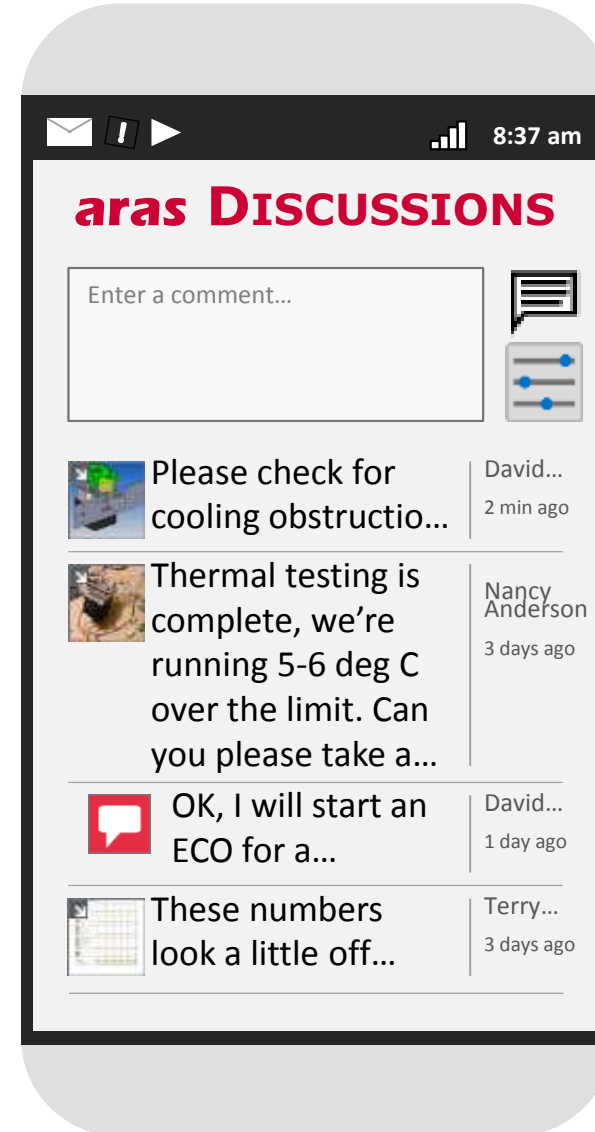
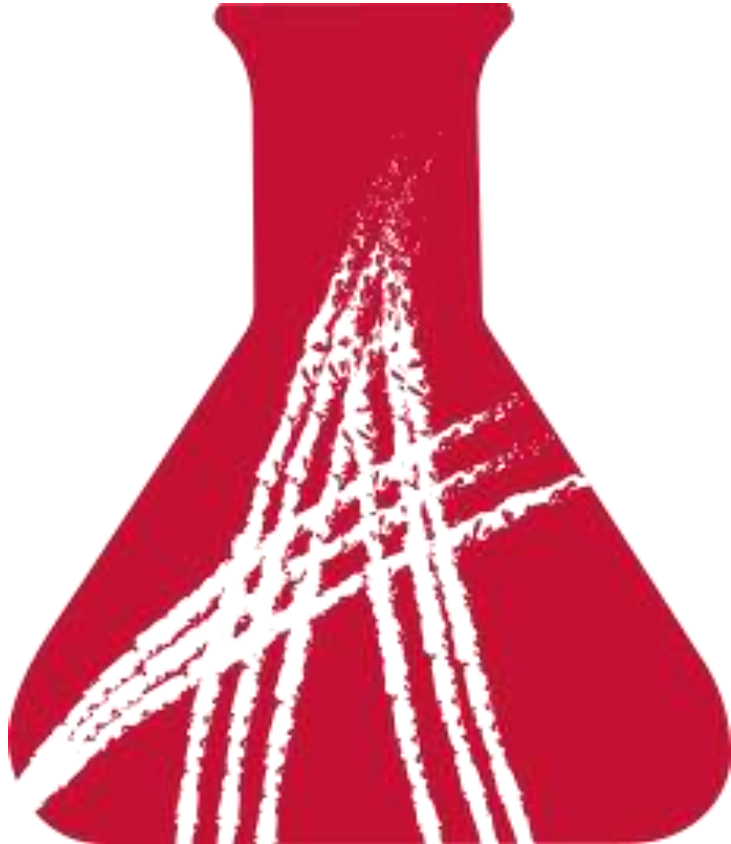


# **introducing**



**aras**  
**LABS**

# Mobile Apps



# Web Services



Book1 - Excel

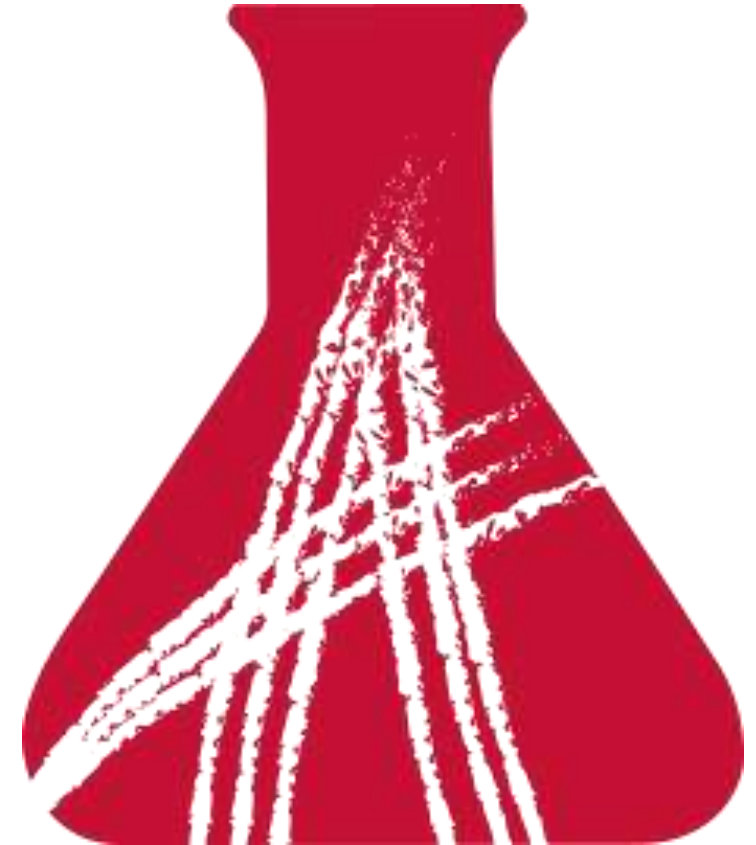
FILE HOME INSERT PAGE LAYOUT FORMULAS DATA REVIEW VIEW ADD-INS DemoDB Loader ARAS TEAM Rob Mc...

J18

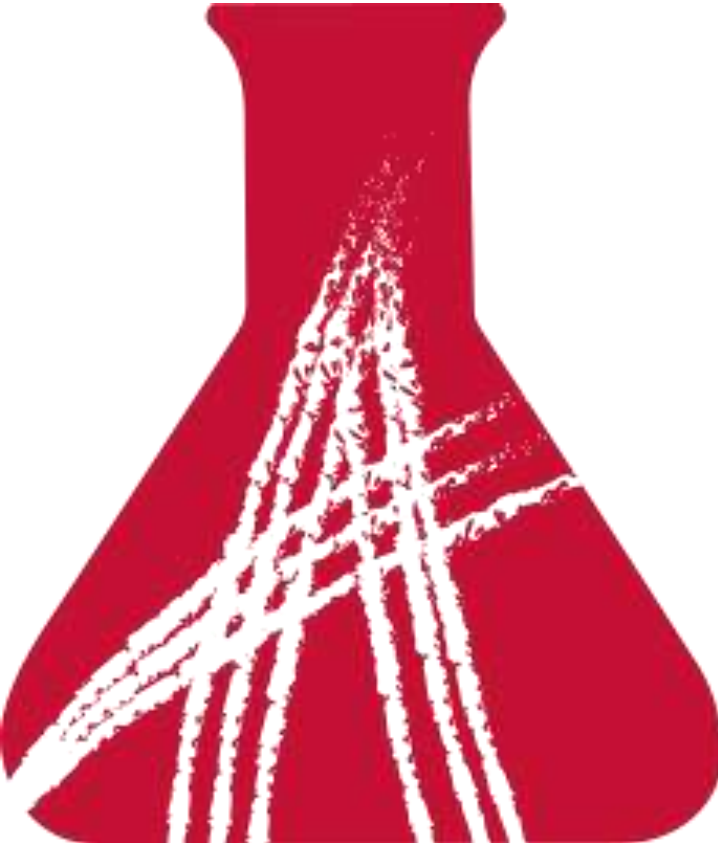
	A	B	C	D
1	Id	PartNumber	Revision	Name
2	C642BFF9C8E646B9ADDC52AEDEA3C9E6	MP2752	C	424 Tooth GT2 Timing Belt
3	E8B1817E1F2B48A4AA41C4ADA989B70E	MP1913-002	A	M3x18 Flat Head Socket Bolt
4	7ED875D438FA400495A5968647376A2D	MP2338	B	Thing-O-Matic Heater Board
5	2D967C7D1DC94B879770A5331D45E256	MP2964	D	Test Electronics Cover
6	951B2EBD9D544AD79BDD1A0603FAA4A3	MP2946	B	Cover Back
7	CFA387C8052C4864B4728BB5C35BA140	MP2720	A	Mean Well GS220A24 R7B Power Supply
8	048B35C3F4354EF48034AB11BA603308	MP2955	B	Front Window Panel
9	63FDE786A9DD40A5B090511DEB0F6419	MP2384	C	Thing-O-Matic 2 Build Platform Outer Back Panel
10	CECBF91D4B8641C5ABB40A85C9706C5A	MP3309	A	8-Stage Register
11	D76AEE4A292E470392583F4A3E2A5A69	MP0370-002	A	M3x6 Socket Cap Bolt
12	18600EFF66564595B3545D5638E6E446	MP2340	A	Dowel Pin 5 32 inch OD, 1 inch length
13	26ABA42FB5614F5D85FE71CC4049E754	MP3154	A	Resistor .1K
14	9ECC245B665D40CCAB34646ADAA2D137	MP2416	B	Thing-O-Matic 2 Y Carriage Primary
15	ACC1D756F6744B10AFEF4779C62159D0	MP1705	B	MK7 Thermal Core
16	3A972DCC9F8643829B3E8FDF4A2C17A9	MP3640	A	26 pin header 13x2
17	A456BC07346E4A789C459B6BBF26714A	MP2459	B	M3 Thumb Nuts
18	1906C46491C0445889D8A828248EF1F8	MP2753	B	Shaft 8mm x 424mm
19	4AB823CEF08042D5B322AF062895F98C	MP0370-003	A	M3x10 Socket Cap Bolt
20	E763CACCEF1C4C45B206DEE84DAB80B8	MP2944	A	Cable Hardware
21	1C8EEDC07A6345EC8B07F9031AEDDA46	MP2583	A	Foot Edge Neoprene

Sheet1

READY



# Connectors



The screenshot shows a Microsoft Outlook interface. On the left is a navigation pane with folders like 'Inbox: 287', 'Junk: 33', and 'Deleted: 18'. The main pane shows an email from 'Aras' with the subject 'Add to contacts' and a task list. The task list includes 'Review the change form for instructions on the changes to be made' and 'Make changes to the new revisions of affected parts and BOMs'. A 'Close Change' button is visible at the bottom of the task list. On the right, there are shopping suggestions from Bing Shopping.

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# Community Solutions



ECO - 3A77A52203BC422095791F8CAB4C5D03 - Internet Explorer

File Edit Views Search Actions Reports Tools Help

ECO

Number: Server Assistant

Title: Main Itzplace

Change Reason: [Empty]

Change Description: [Empty]

Priority: 1 - High, 2 - Normal, 3 - Low

Change Coordinator: Innovator Admin

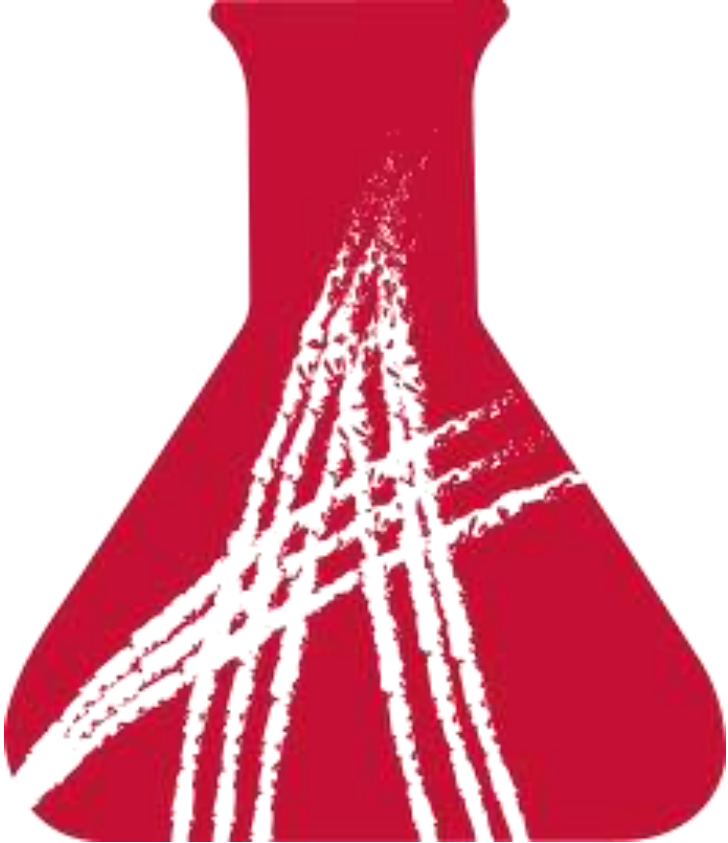
Team: Product Team

Release Date: [Empty]

Effective Date: [Empty]

Impact Matrix Attachments EDRs SignOffs

Item Number	Name	Revision	State	Sequence	Quantity	Unit	Item A...	EDR...	New Number	State	Revision	Relationship Ac...	Sequence	Quantity	New Relation
MP0101	Makerbot Replicator	B	Preliminary			EA									
MP0102	MakerBot Replicator with Cover	A	Preliminary			EA									
MP0210	Gantry Assembly	A	Preliminary			EA	Revise								
MP0325-001	M3x10 Socket Cap Bolt	A	Released	1	1	EA	None					Remove			
MP0326	M3xNN Socket Cap Bolt	A	Released	10								Attach	1	1	MP0370-004
MP0710	Frame Assembly	A	Preliminary			EA	Revise								
MP0725-001	M3x10 Socket Cap Bolt	A	Released	1	1	EA	None					Remove			
MP0726	M3xNN Socket Cap Bolt	A	Released	10								Attach	1	1	MP0370-004
MP0954	Extruder	B	Preliminary			EA									



**INNOVATION**  
**WITHOUT LIMITATION**