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# IDC Re-engineering Phase 2

## Elaboration Iteration E2 Project Review

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SAND2016-XXXX PE

# IDC Re-engineering Phase 2

- Project Scope & Structure
- Performance
- Schedule
- Budget
- Risk
- Summary

# Elaboration Project Scope

- **Scope:** Specify and design a new International Data Centre (IDC) architecture using Rational Unified Process (RUP)
- **RUP Phases (6 Month Iterations)**
  - Inception – scope the system
  - **Elaboration – architecture/analysis**
- Elaboration effort will develop technical products leveraging USNDC products – adapted to include IDC requirements

	CY13	CY14		CY15		CY16		CY17
Phase	Pre-Inception	Inception			Elaboration			
Iteration	(Sept - Jan)	I1 (Jan - July)	I2 (Aug - Jan)		E1 (Jun - Jan)	E2 (Jan - July)	E3 (Aug - Mar)	

# Leveraging US NDC Modernization

- IDC RP2 project is supported by US Contribution-in-Kind performed by Sandia National Laboratories (SNL)
- The SNL IDC RP2 project is executed in conjunction with the US NDC Modernization project
  - The two systems overlap substantially in required capabilities, and have historically shared a common system design
  - The modernization goals of both systems can be achieved at lower cost through development of a shared core architecture
- IDC RP2 will leverage US NDC Modernization SNL staff, processes, and other resources to realize cost savings
  - Substantial effort is still required to adapt US NDC products to IDC

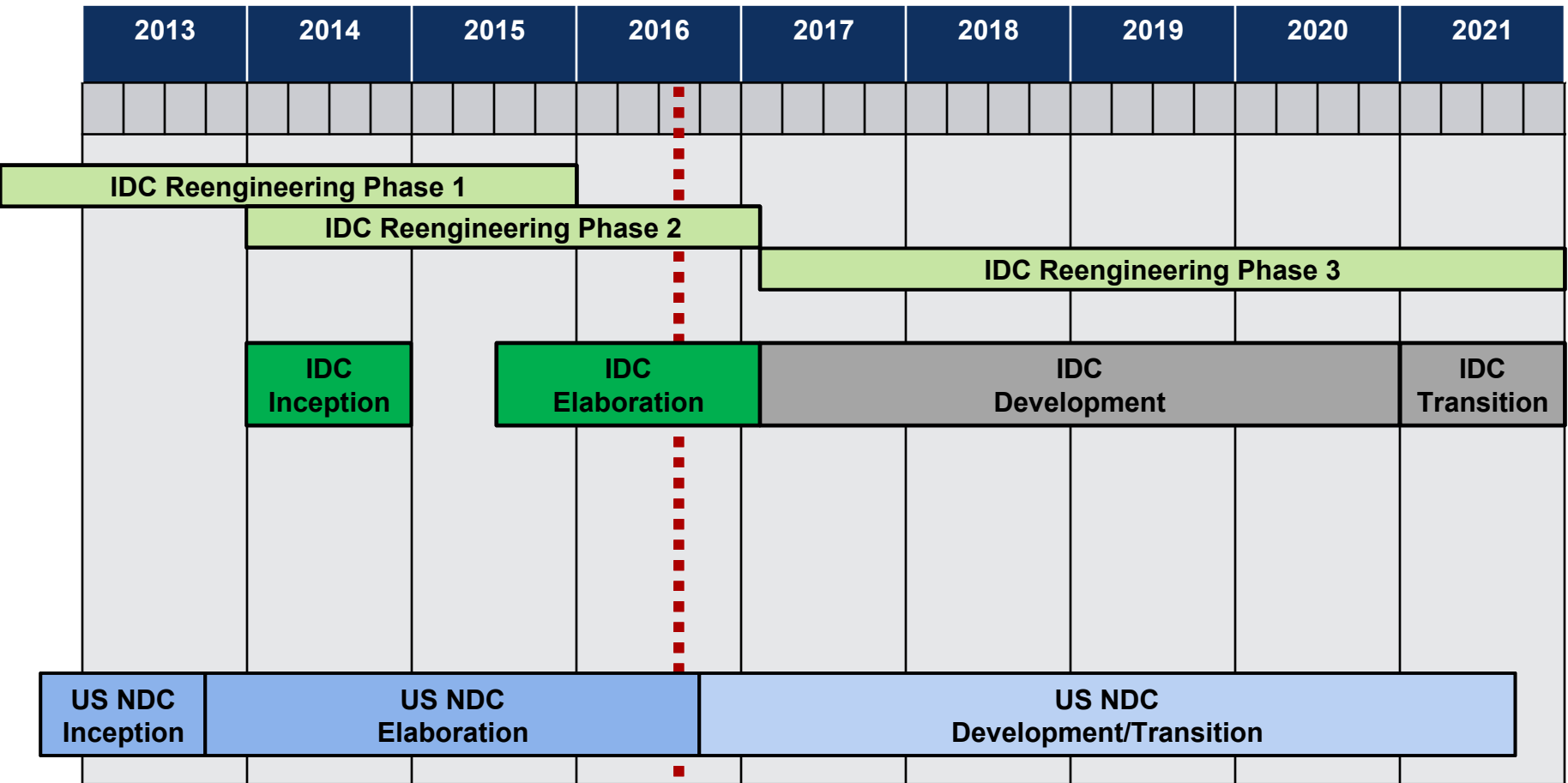
# Elaboration Project Structure

Executive Leadership		
Bob Huelskamp		Randy Bell
Program/Project Managers		
Mary Clare Stoddard/Nathan Conley		Elena Tomuta
Principal Investigators (Technical Leads)		
Mark Harris		Elena Tomuta
Technical Teams		
Sandia National Laboratories		International Data Centre
Stephen Arrowsmith	Randall Lober	Elena Tomuta
Mark Bruhnke	Paolo Macias	Tryggvi Edwald
John Burns	Mark Montoya	David Brown
Dorthe Carr	Ryan Prescott	Ewald Peiszer
Jamie Coram	Rudy Sandoval	Robert Pearce
Timothy Eriksson	Meara Satpathi	Ronan Le Bras
Benjamin Hamlet	James Vickers	Pierrick Mialle
Mark Harris	Christopher Young	
Steve Kubica		

# Elaboration Deliverable Status



Deliverable	E1	E2	E3
<b>System Specification Document</b>	Delivered	Delivered	Planned
<b>Use Case Descriptions</b> (nominally 20 per iteration)	Delivered - 21	Delivered - 21	Planned
<b>User Interface Storyboards</b> (nominally 12 per iteration)	Delivered – 12	Delivered – 17	Planned
<b>Use Case Realizations</b> (nominally 4 per iteration)	Delivered - 4	Delivered - 4	Planned
<b>Component Interface Definitions</b>	Delivered	Delivered	Planned
<b>System Architecture Document</b>	Delivered	Delivered	Planned
<b>Executable Architecture Reports</b>	No update in E1	Delivered	Planned
<b>Physical Data Model Changes</b>	Delivered	Delivered	Planned
<b>Stakeholder Workshop Support</b>	E2 Delivery	Delivered	Planned
<b>Review and Update of Cost Estimates</b>	No update in E1	No update in E2	Planned

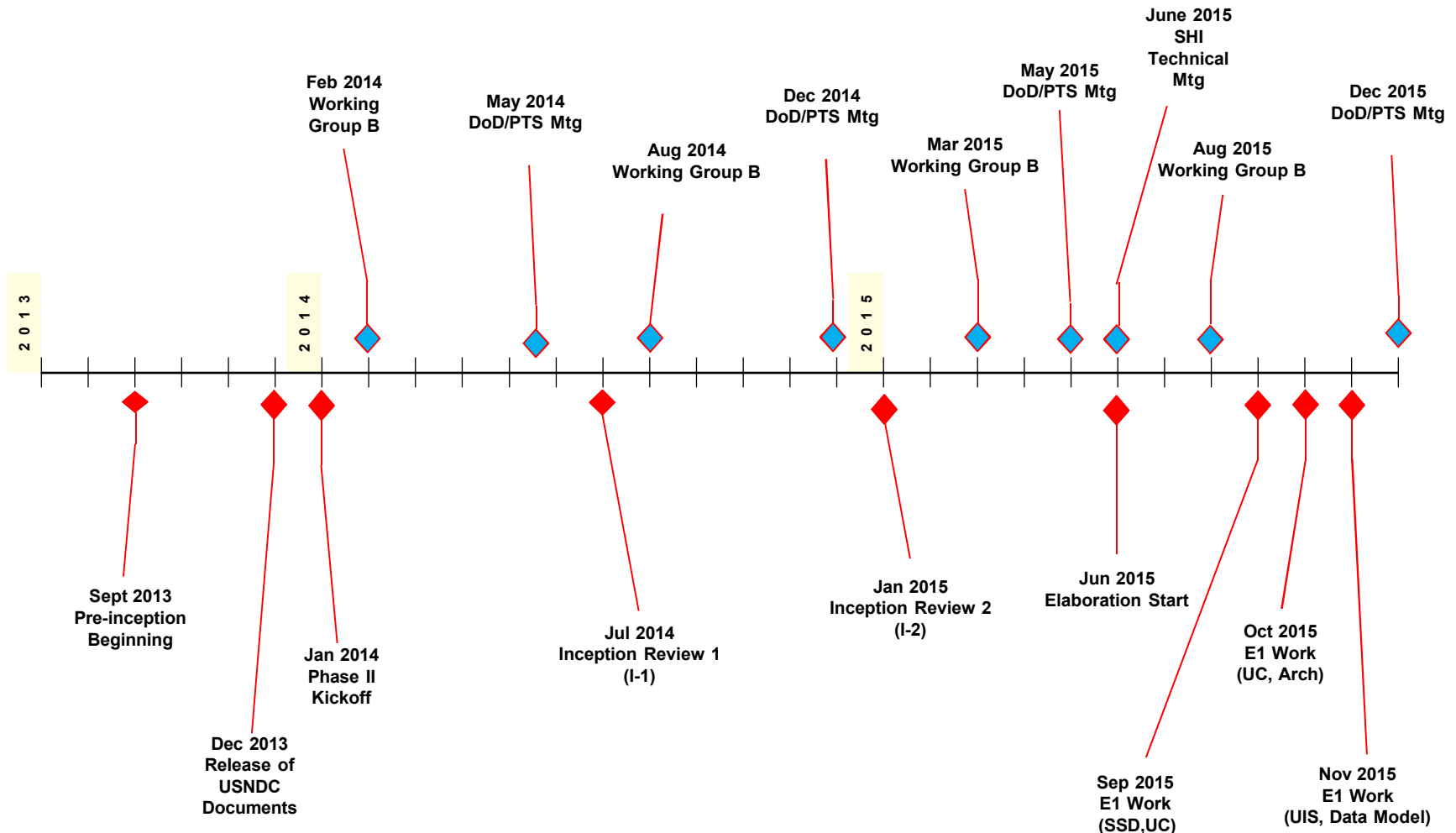
# IDC Re-engineering Timeline



IDC Development is currently unfunded

# IDC Re-engineering Timeline

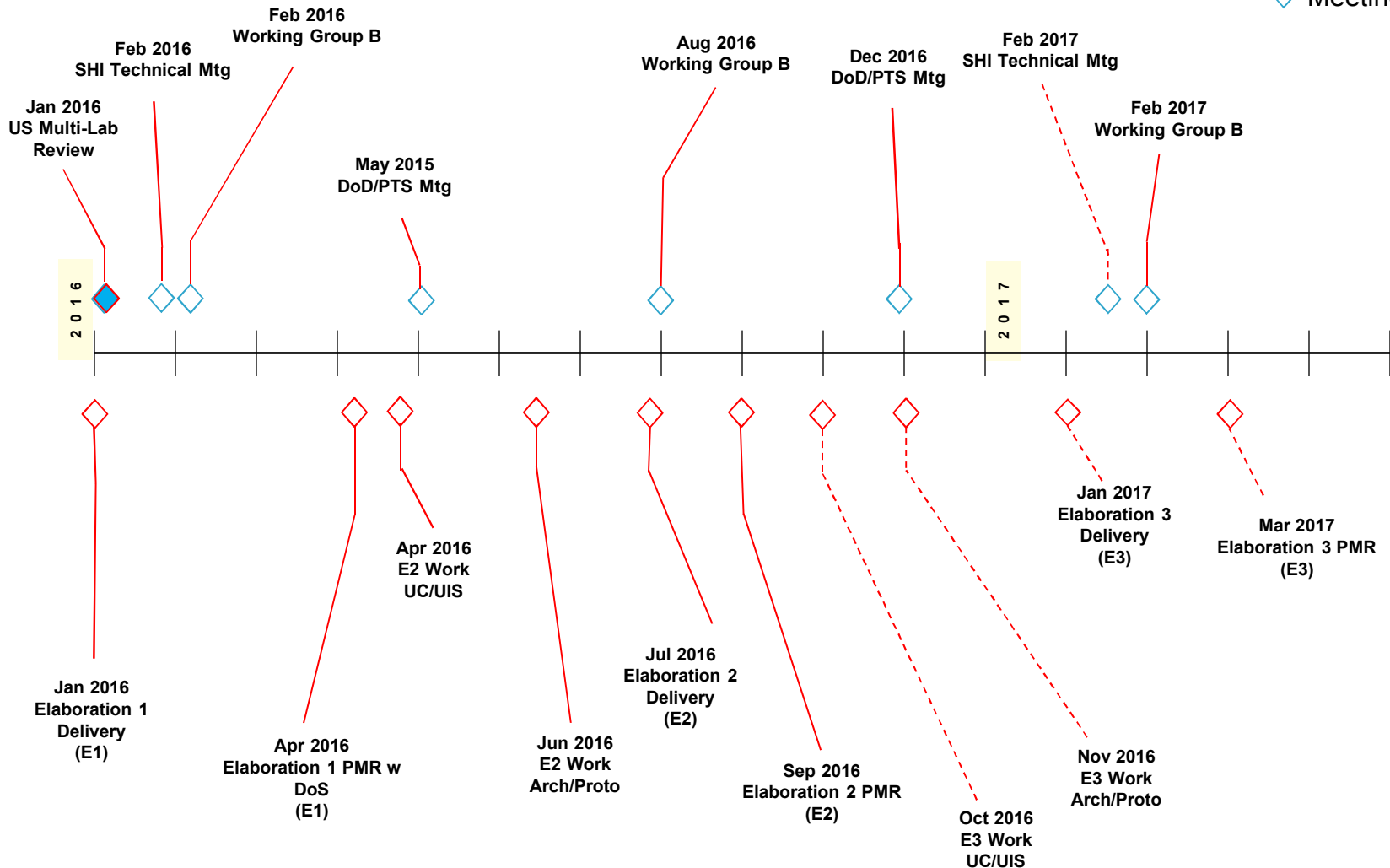
-  Project Activities
-  Meetings





# IDC Re-engineering Timeline

- ◇ Project Activities
- ◇ Meetings



# Summary

- Cost, Schedule, Performance are on plan
- Elaboration tempo is sustainable
- Proposed E3 deliverables plan under consideration