



# STUCK IN YOUR PLM JOURNEY?

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# STUCK IN YOUR PLM JOURNEY?

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- ArcherGrey
  - Common Stuck Questions
  - Set Stage
  
- Raytheon
  - Advancing “PDM” to “PLM”
  - Making Your Case
  - Getting Un-Stuck
  
- ArcherGrey
  - Framework
  - Guiding Principles within Framework

# FEELING STUCK?

- PLM implementation going on for years, yet feel benefits have not been realized
- If I only knew this before
  - In the second or third project and looking back, if I knew what I know now, this is how I would have done differently
- Fine tuned processes numerous times but end does not seem to achieve the end result
- Management changes direction in middle of project
- Funding for later phases not materializing
- PLM Projects identified in Project Portfolio not making it above the approval line
- OTHERS?



- PLM maturity level varies at companies, the focus on the discussion today will benefit companies who have
  - Started the PLM journey
  - Completed at least one project
- Baseline Example from Raytheon
  - PDM is implemented
    - CAD data management
  - PLM solution implemented
    - BOM management
    - Change process
    - Parts
  - Struggling (**“Stuck”**) on how to implement a BOM strategy (EBOM, MBOM, As-Built, .....)

# Raytheon

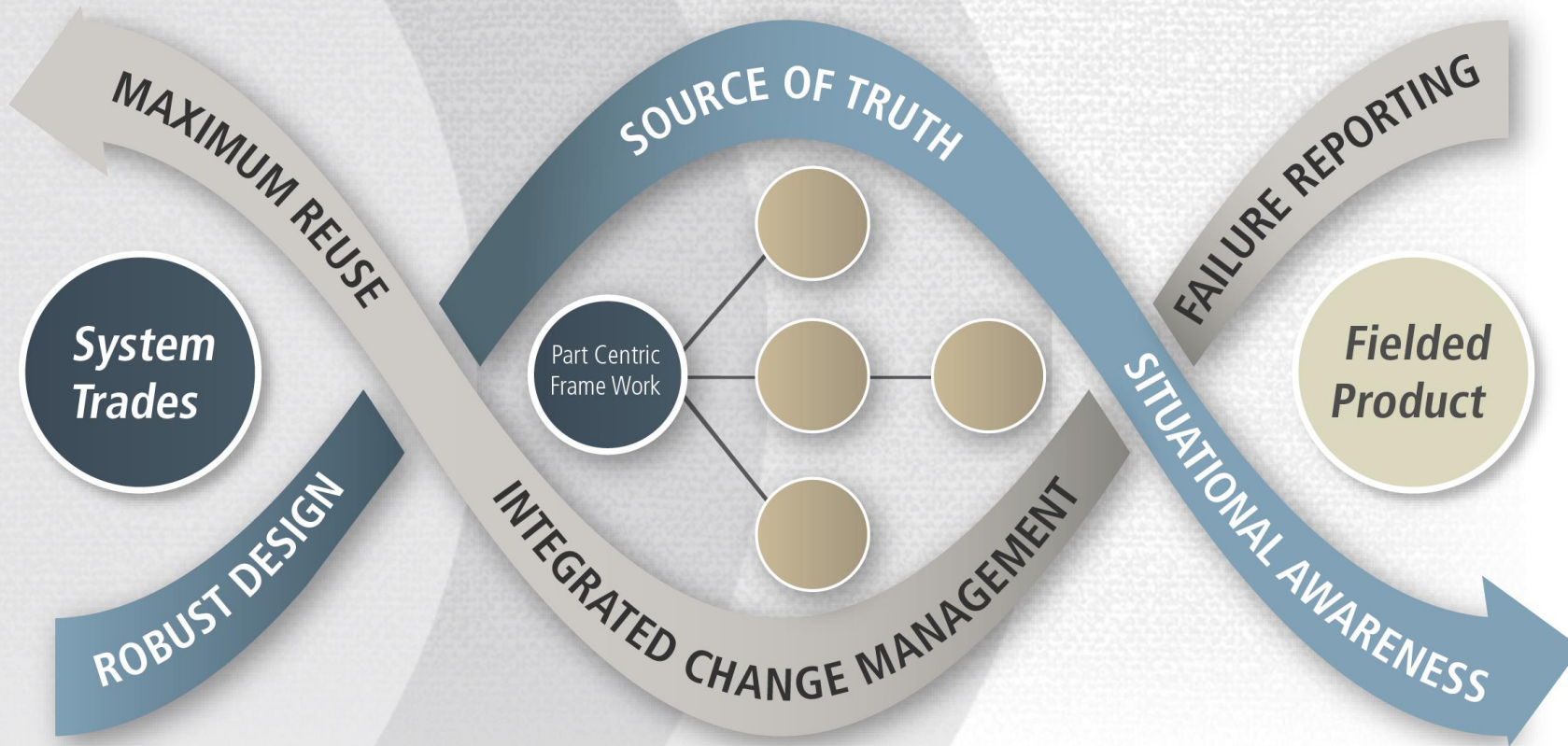
*Customer Success Is Our Mission*

DAVID B. SLADER  
RAYTHEON ENTERPRISE  
PLM DIRECTOR

# Product Lifecycle Management (PLM)

**Raytheon**

*Customer Success Is Our Mission*



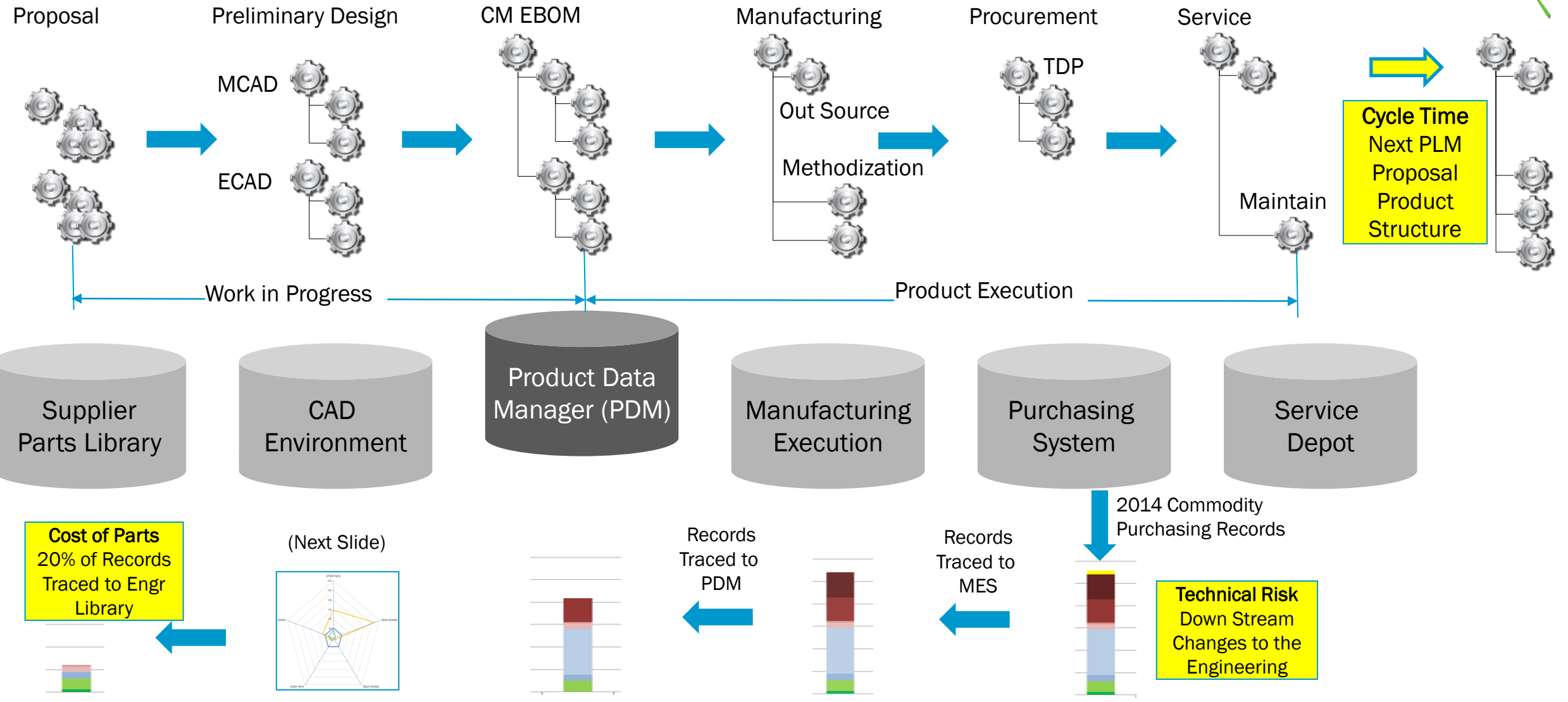
## Advancing “PDM” to “PLM”

David B. Slader  
Raytheon Enterprise  
PLM Director

**PDM:** The control point for part and product definition

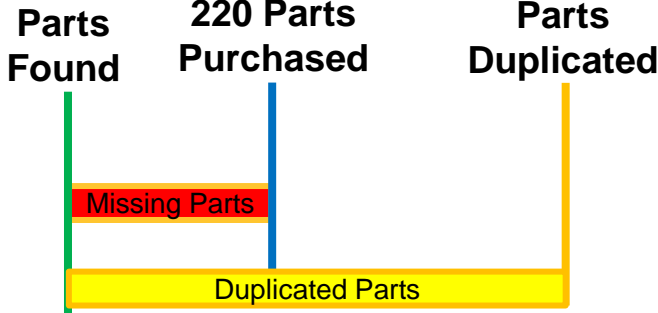
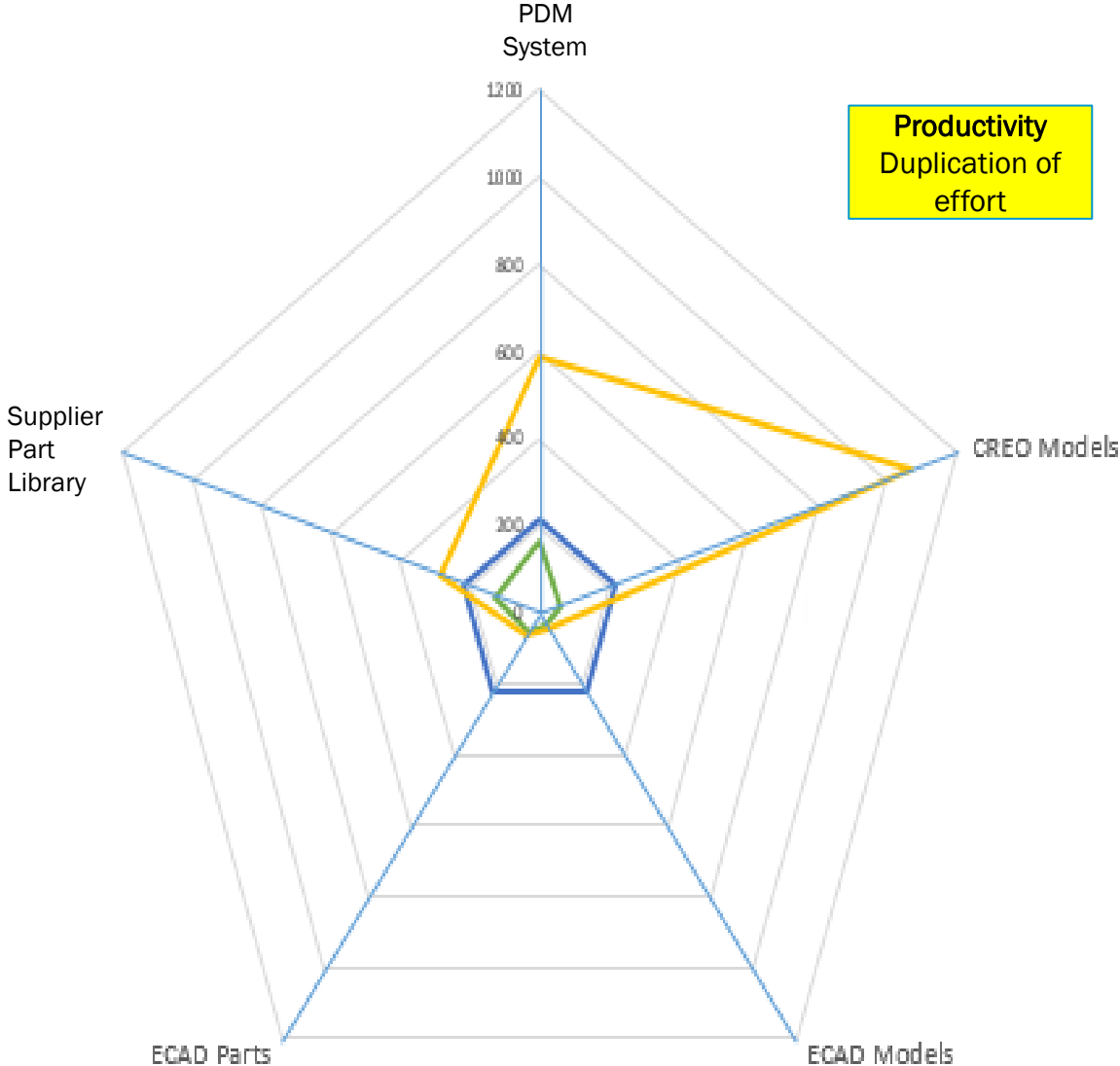
**PLM:** Product Structure (Bill of Material) management from Proposal to Disposal to Proposal

# MAKING YOUR PLM CASE!



**Analyze the Current System in Reverse Will Compel a PLM Solution**

# MISSING AND DUPLICATE PARTS





# GETTING “UN-STUCK”

- Motivating the business
  - Creating a vision
  - Drive the business case home: Cost, Schedule, and Technical impacts of current State
- Aligning the stakeholders
  - Who are the people that influence decision making?
    - Communicate early and often
  - Where are the improvements needed?
  - Where are the benefits gained and measured?
  - Identify funding streams
- Timing the project
  - Move quickly before benefits disappear with a Band Aid fix
    - Advertise the project to halt further investment in other solutions
  - What is the annual funding cadence
  - Are budgets annual or do they roll over to the next year

Decorative geometric shapes in the background: a large pink triangle pointing down-left, a blue triangle pointing down-left, a small yellow triangle pointing down-right, and a large green triangle pointing down-right.

# *Archer***GREY**

BILL MACEK  
ARCHERGREY  
DIRECTOR OF SERVICES

# GETTING UN-STUCK FRAMEWORK

## Enterprise Data Architecture

**Description**

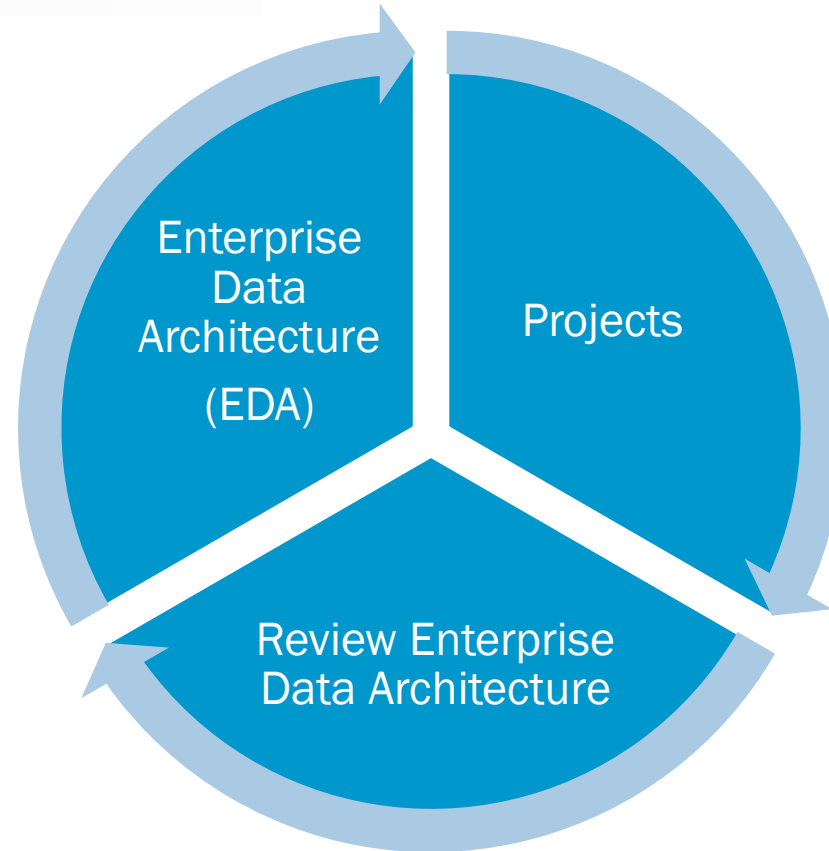
- Define relationships between People/Data/Systems/Processes

**Major Tasks**

- Align leadership with Data and System Ownership
- Enterprise Architecture Roadmap
  - Includes ERP, PLM, CRM, etc...
- Enterprise Architecture Exploration
  - What Systems own What Data
  - What People own What Processes

**Deliverables**

- Enterprise Solution Roadmap
- Recommendations
  - Phased Implementation
  - Projects



## Projects

**Description**

- Define projects, build business case(s) and implement

**Major Tasks**

- Business Requirements & Use Cases
- Functional / Technical Specifications
- Configuration
- Testing
- Go-Live
- HyperCare / Training
- Organizational Change Management

**Deliverables**

- Project Scope / Plan
- Business Return On Investment
- Cost Estimate

## Review Enterprise Data Architecture

**Description**

- Review and update EDA to capture and resolve business changes during project timeframe

**Major Tasks**

- Review EDA against business changes / priorities
- Stakeholder Agreement
- Identify and resolve actions
- Agreement on new priorities if required

**Deliverables**

- Updated EDA Document

# GUIDING PRINCIPLES WITHIN UN-STUCK FRAMEWORK



- Understanding the “WHAT’s”
  - WHAT are the Business Strategy Requirements
    - Enterprise roadmap
      - ERP Roadmap
      - PLM Roadmap
      - CRM Roadmap
      - All others ...
  - WHAT are the Data Requirements
  - WHAT are the Process Requirements
- Start at the end and work back to the beginning to define requirements
  - WHAT data is required, not HOW to accomplish
- Remember all stakeholders in all stages that are consumers of data, need to understand their requirements
  - Examples may be
    - WHAT data does the Final Assembly in-house need?
    - WHAT data does Contract Manufacturing need?
    - WHAT data does Regulatory need?
    - WHAT data does ERP system need to cut PO to CM?
- Data Architecture (WHAT’s needed)
  - WHAT data is
    - Parts, BOM’s, Spec sheets, Documents etc ...
  - WHAT data is required
  - WHAT data is stored in WHAT system
  - WHAT are the Data consumption requirements

# QUESTIONS & CONTACT INFORMATION



- Time permitting – Please raise your hand
- ArcherGrey Contact Information
  - [www.ArcherGrey.com](http://www.ArcherGrey.com)
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  - 708-579-5345

The image features several colorful geometric shapes, including triangles and lines in shades of blue, green, yellow, orange, pink, and purple, scattered across the background. A large, multi-colored geometric shape is prominent on the right side.

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