

# PAIM Objectives

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**NIST**

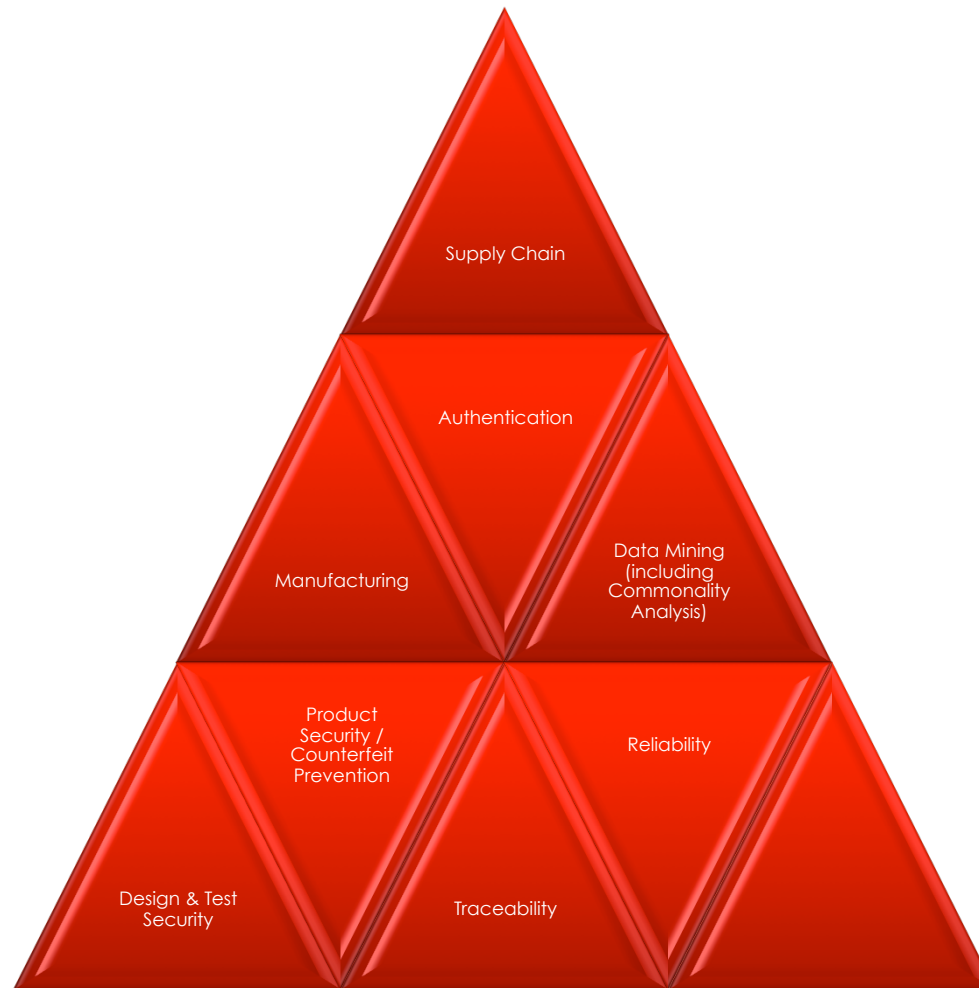
# Objectives

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- **Understand the problem**
  - Issues
  - Challenges
  - Needs
- **Identify current standardization efforts**
  - NASPO, AFNOR, SEMI, etc.
- **Determine information standards needs**
  - Authenticating products, components, materials
  - Taking action on counterfeit parts
- **Determine how the pieces will fit together to address needs**
  - Need to consolidate and protect information
- **Prioritize needs and develop an actionable plan**

# Pieces of the Puzzle

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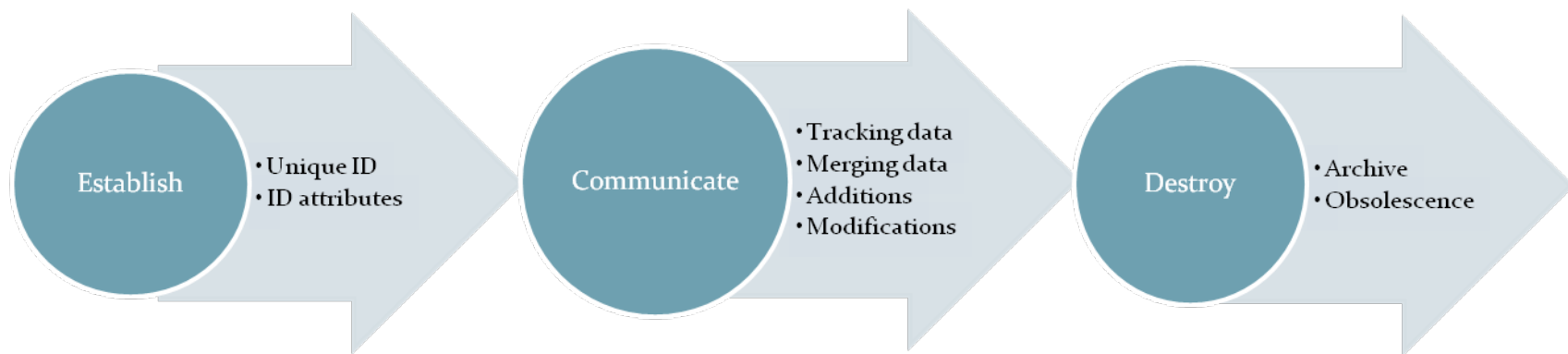
# Identity Information Management

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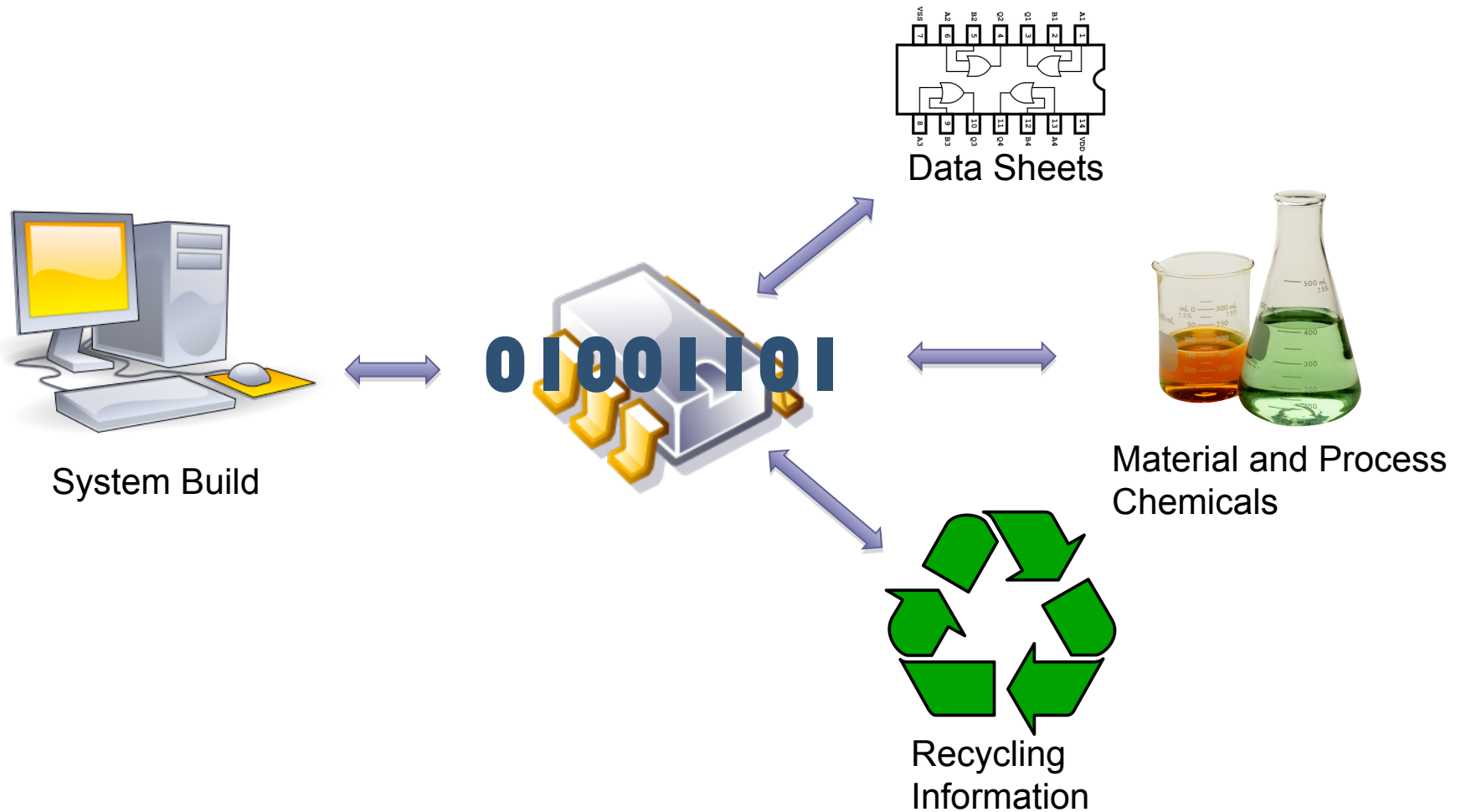
- **Managing identity of the product**
  - Authentication
  - Tracking
  - Traceability
  
- **Authentication architecture**
  - Federated
  - Centralized

# Identity Lifecycle

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# Identification by Product Data



# Advantage of Standards

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- **Interoperability**
  - Anytime, anywhere rapid data access - reduce translation needs
  - Focus solution on security rather than integration, communication
- **Data Integrity**
  - Eliminate translation errors
- **Security**
  - Tested robustness
- **Customer Protection**
  - Confidence in anti-counterfeiting solution

# Pitfalls and Lessons Learned

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- **Too many standards!**
  - Supply chain integration issues
  - Lack interoperability
  - Vision, awareness and understanding
- **Slow to evolve**
  - Cumbersome standardization process
  - Limited resources – based on volunteer support
  - Ensure room for growth and flexibility
- **Security**
  - In diversity
  - In obscurity
  - Open prototyping and testing



# Opportunities

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- **Understand enforcement/market needs**
  - Develop a vision for electronic product identity management
  - Develop use cases for:
    - Anti-counterfeiting enforcement
    - Product authentication throughout the product lifecycle
- **Develop information management specifications**
  - **Information models** for **cooperation** between:
    - Enforcement agencies
    - Supply chain partners
    - Supply chain and enforcement
- **Drive convergence of efforts**