Andea GUIDE: MES/MOM UPGRADE
HOW TO UPGRADE?

1. Assess
   - Scope
   - Effort
   - Timeline

2. Plan
   - People
   - Budget
   - Schedule

3. Upgrade
   - Tech Upgrade
   - Guidelines
   - Checklists

4. Schedule
   - Detailed cut-over Schedule

5. Go Live
**How to Upgrade?**

**Step 1**

**Actions**
- Perform Assessment of
  - Environments
  - MES Application
    - Functionality
    - Customizations
  - Database

**Results**
- Assessment Report
  - Upgrade Scope
  - Effort Estimation
  - Timeline

**Did you know?**
- Upgrade effort can range from 30 - 300 Mandays and is dependent on:
  - Source and target version
  - Amount of customizations
  - Data size
  - Solution complexity
  - Number of production sites
- Andea can help you perform an upgrade assessment at a fixed price in just a few weeks
To Upgrade?

Step 2

2. Plan

**Actions**
- Identify Benefits
- Define the Upgrade Team
- Engage Internal Resources
- Prepare Project Plan

**Results**
- Business Case
- Approved Budget
- Mobilized Teams
  - Internal / External
  - Agreed Schedule

Don’t miss the opportunity!

- **Functional enhancements:**
  An upgrade project is an opportunity to add new features and leverage on the system tests.

- **Testing approach:**
  Platform upgrade may require refactoring of some parts of the MES application. That may require partial or full regression tests. Automation of the tests could be considered as a part of the project.
**How to Upgrade?**

**Step 3**

**3. Upgrade**

**Actions**

- Technical Upgrade
  - Set up a Sandbox
  - Upgrade DB engine and OS
  - Upgrade DB structure
  - Upgrade the platform
  - Correct the MES application issues
- Implement Functional Enhancements
- Perform System Testing

**Results**

- Upgraded System
  - DB, OS, Platform
  - Operational MES App
  - New Features
- Documentation
  - Upgrade Guidelines
  - Checklists
### HOW TO UPGRADE?

#### Step 4

**Schedule**

#### Actions

- Prepare Detailed Schedule
  - Hour-by-hour plan around the downtime period
- Assign actions to people
- Coordinate all the engaged teams

#### Results

- Cut-over Schedule
- Rollback Plan

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**Happy Weekend!**

- Upgrades are typically scheduled for the weekend
- Factories operating 24/7 have a few downtime periods a year: be aware of concurrent projects
- Downtime period can be as short as one shift
**Actions**

- Execute the Cut-over Plan
- Hypercare (1-2 weeks)
  - Monitor Performance
  - Knowledge Transfer to Support

**Results**

- Upgraded and working solution
- Final PM Report
  - Budget and Schedule Summary
  - Lessons Learned

**Summary**

- Do not underestimate the effort and complexity of Apriso upgrade
- Assign an experienced team to complete the upgrade
- Start the upgrade project with adequate assessment
- Staff the project sufficiently
- Do not miss the chance to enhance the functionality during the technical upgrade
- Do not go overboard with new functional enhancements
- Communicate and synchronize the upgrade schedule with relevant third-parties