



# *Rabobank*

## **GDPS Implementation**



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IBM: Chris James

# AGENDA

- RABO DCS
- GDPS Solution at RABO
- GDPS Project at RABO
- Some General Observations

# Rabo requirements

- Requirements
  - Presentation by Roel Staphorsius

# GDPS Solution at RABO

- Solution
  - Presentation by Mark Cowland

# GDPS solution at Rabo - Introduction

## 1. Initial Requirements

- *RTO / RPO*
  - *RTO 1 hour (½ hour for infrastructure and ½ an hour for application)*
  - *RPO expectation - discussion*
- *Minimize impact on PROD systems during implementation*
- *High Availability of DASD*

## 2. Schedule / Plans

- *Complete the Project by June, 2011*

## 3. Implementation

- *Dedicated at RABO for most of 2009*

# GDPS solution at Rabo - Unique

## 1. Infrastructure

- *Type of Hardware*
- *Separation Distances*
- *etc*

## 2. Software

- *Different vendors*
- *Different configurations*
- *etc*

## 3. Practices & Procedures

- *Operations Monitoring and Control*
- *Disaster Recovery*
- *etc*

## GDPS solution at Rabo – Sysplex's

1. SANDBOX

2009

2. QA

3. PROD1

2010

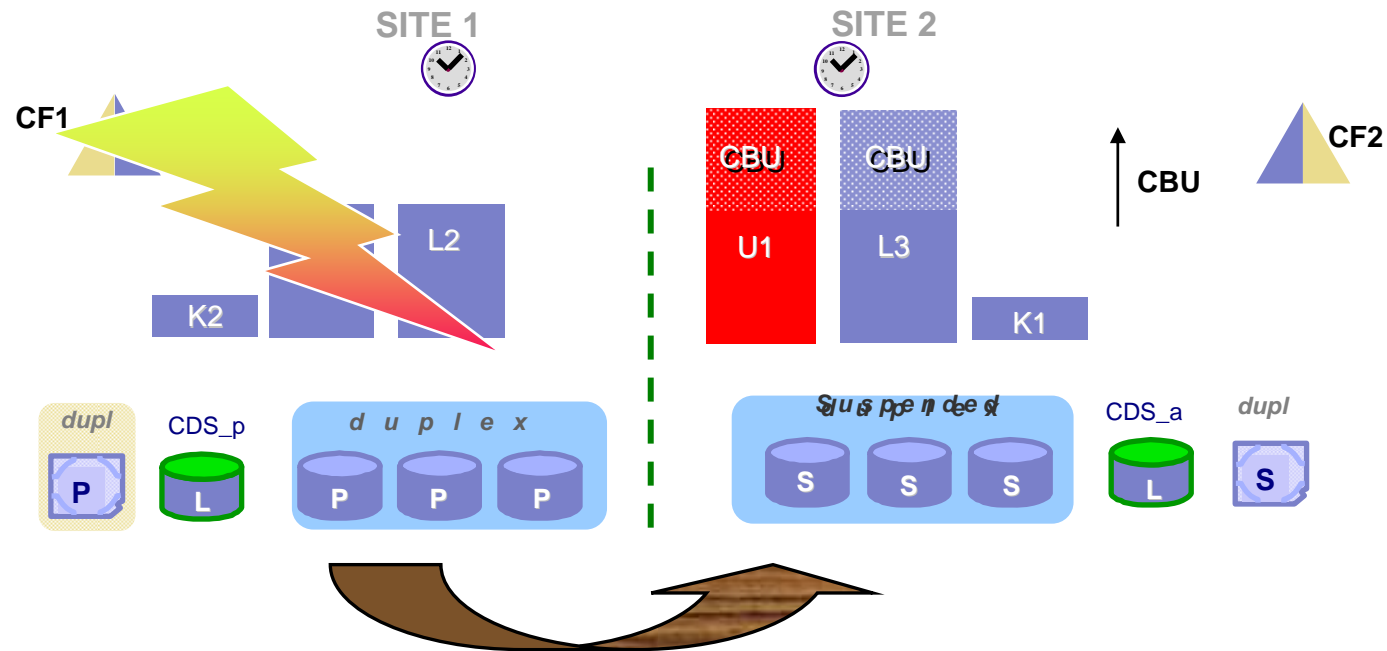
4. QA2

2011

5. PROD2

June  
2011

# GDPS solution at Rabo - SANDBOX



- Hyperswap disk configuration
  - Planned or UnPlanned
- Site Failure
  - Hyperswap
  - Option to start Backup LPAR for L1 (U1)
  - Option to invoke CBU

***SITE2 Operating Systems remain active throughout the procedure***

# GDPS solution at Rabo - SANDBOX

## 1. Position for Subsequent Environments: QA, PROD...

- *Common Scripts*
- *Common Detailed Test Scenarios*
- *etc*

## 2. Provide “training” environments

- *Operations monitoring and control*
- *System Programming*
- *etc*

## 3. Practices & Procedures

- *Operational – focal point monitoring*
- *Validation of future implementation strategy – to minimize impact*
- *Validation of Procedures – BCRS etc*

# GDPS solution at Rabo - SANDBOX Implementation

## Major Infrastructure Actions / effort

- *Additional LPARS for K-sys's*
- *Isolation Requirements: RACF DB, System Automation*
- *DASD Architecture*
  - *Placement of CDS's and Staging Datasets*

## Major Procedural Actions / effort

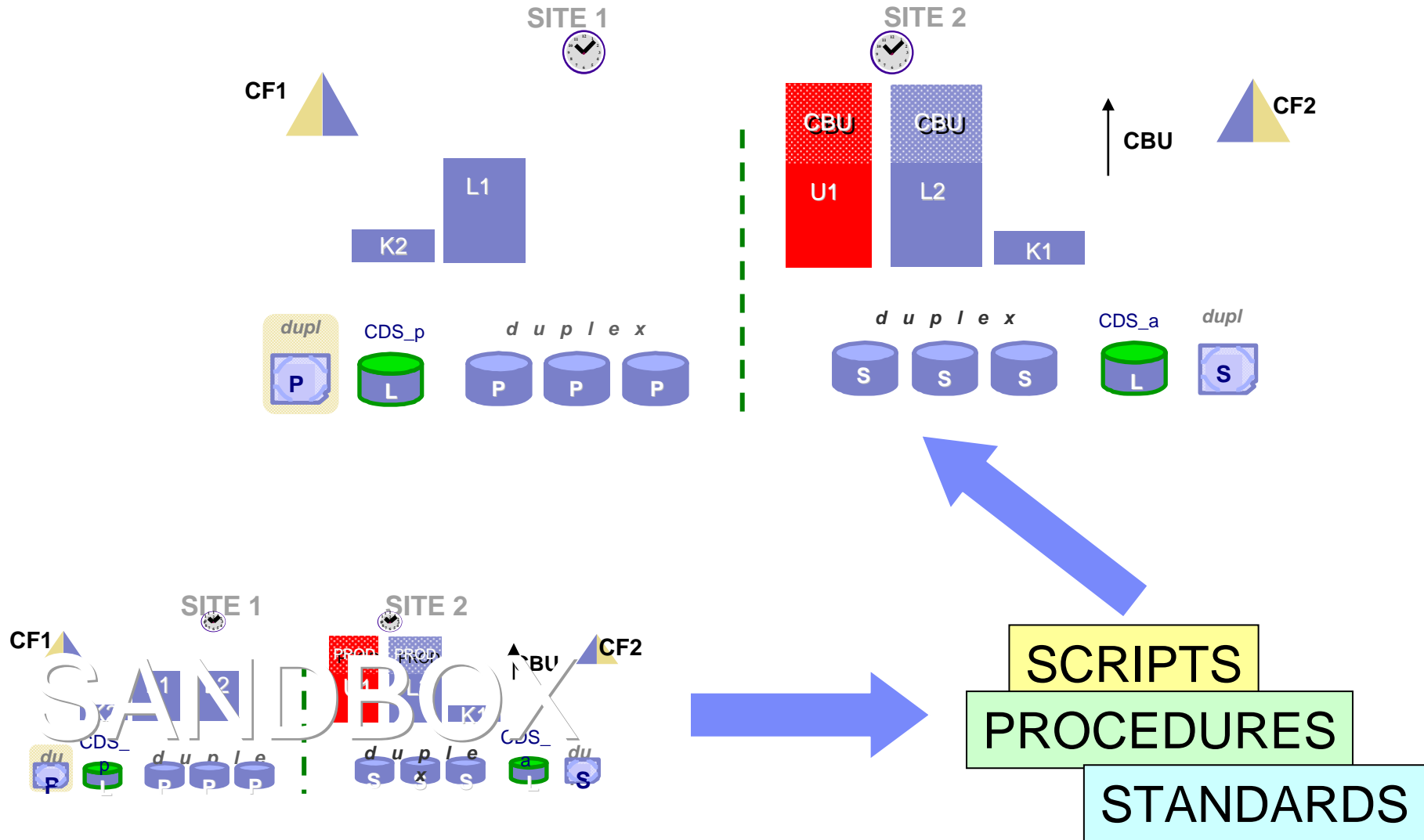
- *Maintenance/Upgrade procedures for K-sys's*
- *Maintenance/Upgrade procedure due to isolation requirements*
- *Operational Procedures*

## Validation of Requirements

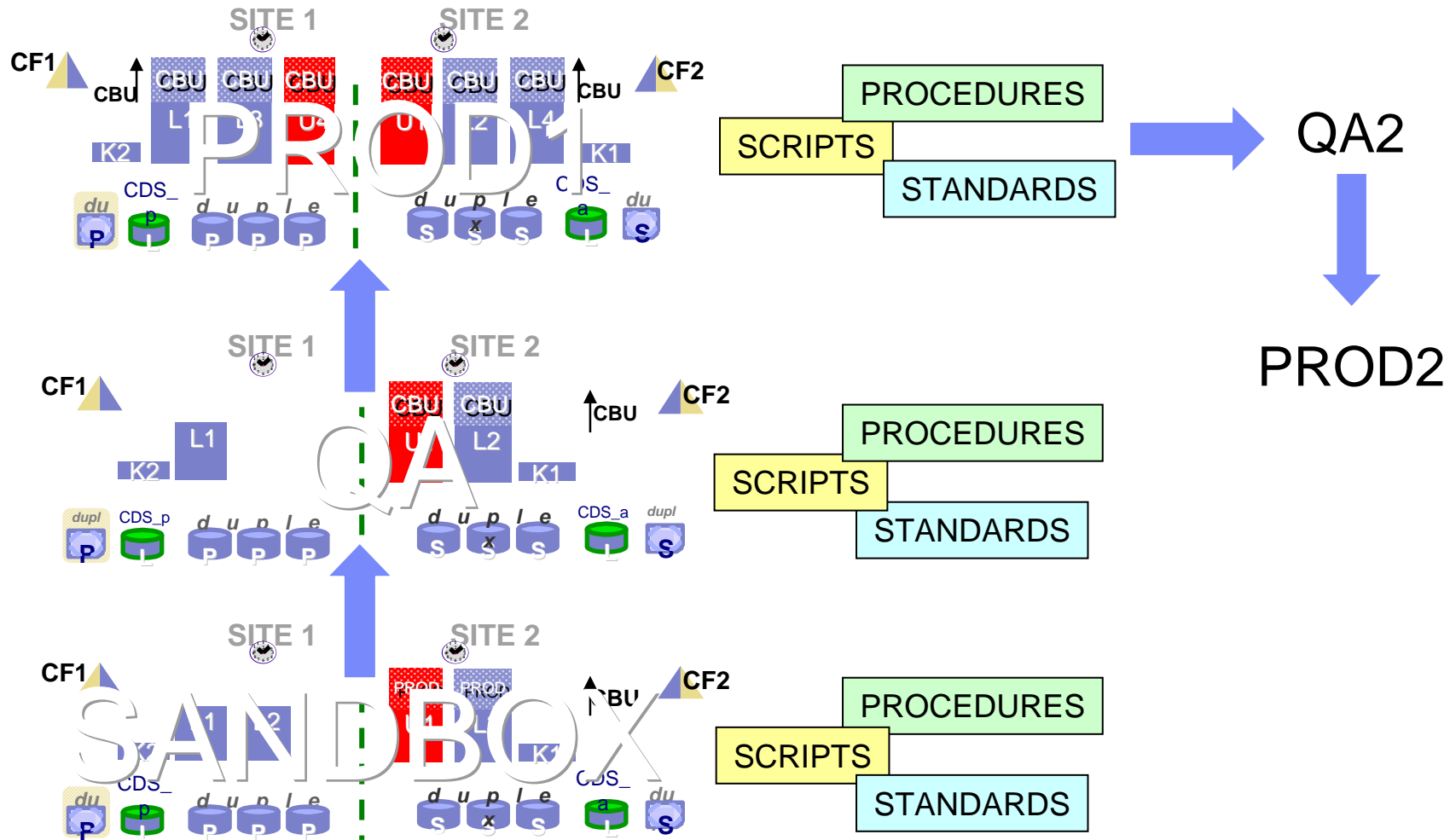
- *Detailed Test/Validation Scenarios*
  - *RTO*
  - *RPO Discussion*
  - *No Impact to other environments*

**DATA CENTER MOVE TO BEST - BOXTEL**

# GDPS solution at Rabo - QA



# GDPS solution at Rabo – PROD etc



## GDPS solution at Rabo

- **One Common method of Operating all GDPS environments**
  - *Focal Point Monitoring Integration*
  
- **One maintenance and customisation strategy for all GDPS environments**
  - *Software upgrades*
  - *RACF propagation*
  
- **Common Defined standards for all GDPS environments**
  - *DASD*
  - *SCRIPTS*

# GDPS solution at Rabo – Now and Future

- **RABO GDPS Requirements**
  - *Specific requirements that RABO have for GDPS*
  
- **RABO GDPS Problems or Concerns**
  - *Dedicated IBM support, plus “Normal” IBM Support*

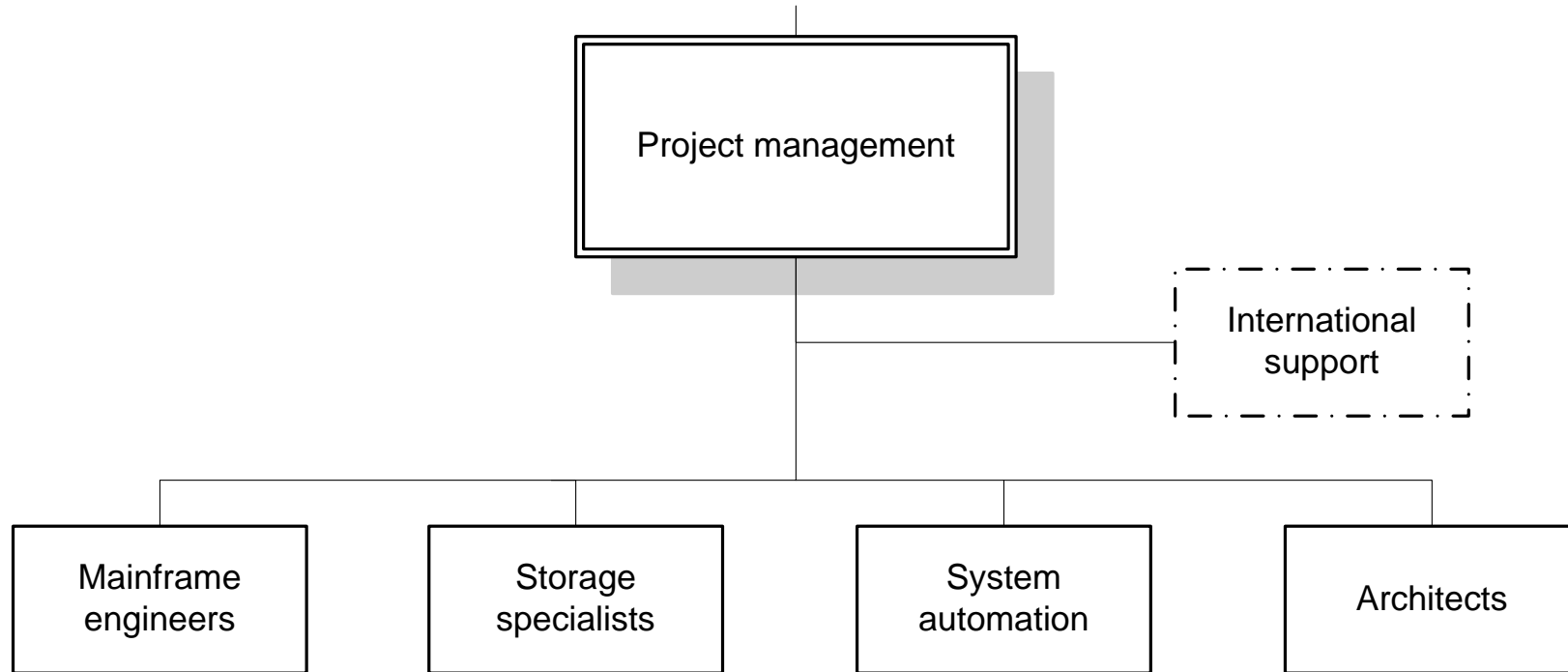
# GDPS project at Rabo

- Roel Staphorsius

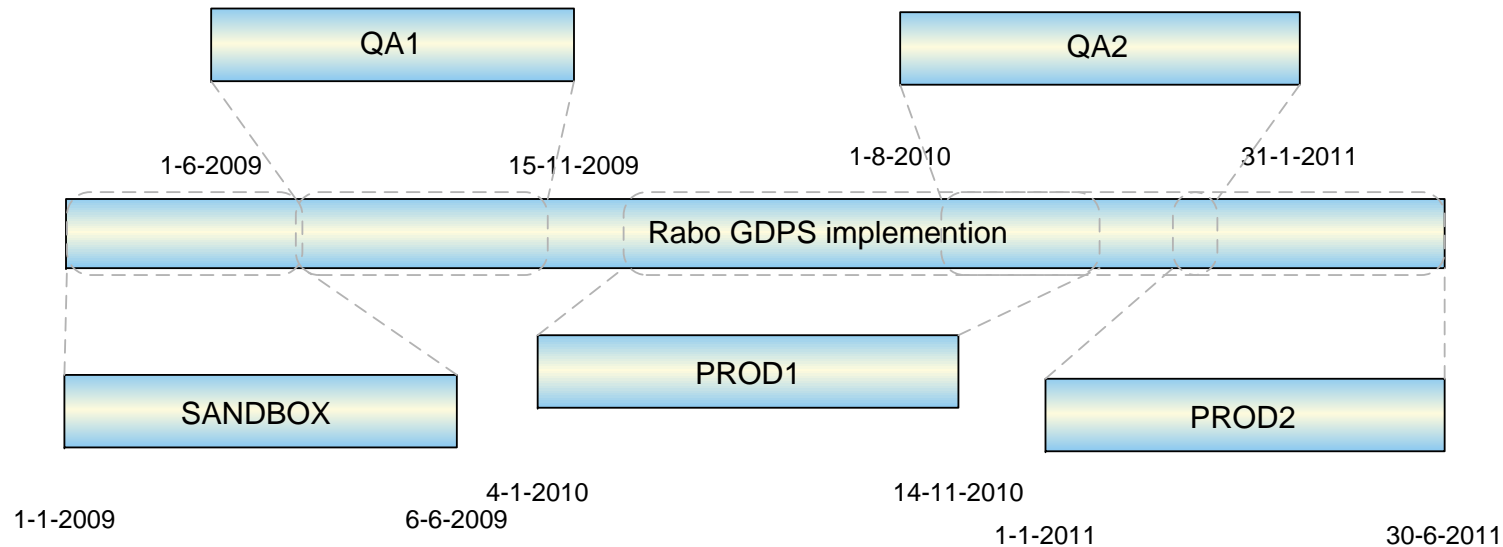
## GDPS Project at Rabo

- Project start January 2009
  - Project preparation 2-nd half 2008
  - Project kick-off for management and engineers Jan 2009
  - Project and phase definition according to timelines already set
  
- Global plan structure
  - One-time activities (people, organization, GDPS policies)
  - Repeating activities for all GDPS environments

# GDPS Project organization



# GDPS Project planning & execution



## ■ Project execution

- Dedicated team Rabo and IBM
  - International IBM consultants for questions & health checks
- Monthly status meetings meeting Rabo & IBM
  - Planning & progress
  - Issues & risks

## Some general observations

- Chris James

## Some General Observations

- Fully understand your business requirements for Continuous Availability and Disaster Recovery
- Choose a CA/DR solution that fits exactly your business needs
- Prepare well in advance for the GDPS implementation
- Team with IBM's GDPS product experts to ensure the success of your GDPS implementation project

## How to customers typically respond to CA/DR requirements

- Do nothing
- Do something, but not enough
- Do what is necessary
- Do more than necessary

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# Thank you!

- Any questions?

