

**Cornerstone**  
Technology



# Preserve the potential of your application portfolio

London June 3, 2014

# Preserve the potential of your application portfolio

## AGENDA

- Challenges and the need for modernization
- Profile of Cornerstone and unique selling points.
- G4 capabilities
- Project approach and execution
- Partners

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# Challenges and the need for modernization

- CIOs are expected to:
  - reduce costs
  - improve business processes
  - enable new technologies and improve time to market
  - support new channels, new User Interfaces (UI), big data
- CIOs face complexity and chaos
  - application sprawl
  - applications have become fast-moving and ever changing
  - high demand for continuous availability and high secure
  - lack of application ownership
  - **discontinuity (support) of hardware / software**

# Challenges and the need for modernization(2)

- CIOs challenges:
  - cost optimization
  - control over application portfolio
  - inability to accelerate IT responsiveness and Innovation.
- **Control over the application portfolio is key ;**
  - take inventory and analyze
  - categorize according to risk, business criticality and costs
  - evaluate alternatives for improvement of the portfolio



1 Tolerate, 2 Eliminate, 3 Replace, 4 Modernize

# Challenges and the need for modernization(3)

## Cont.

- “Replace” experience shows this to be high risk, costly, with long implementation timescales, and usually a doubled budget.
- **“Modernization” is seen as the most viable solution.**  
*and it's the best way to preserve the potential of the application portfolio and assets.*

Business demands lead to modernization requirements :

- Database,- Interface - Application code (web enabling)

IT fulfilment demands lead to modernization requirements :

- Implementation of new hardware and/or software architecture
- Implementation of new programming languages / models

# Profile Cornerstone and USPs

- The **core business** of Cornerstone (a Dutch company) has been Application Modernization for more than 20 years.

We deliver a **complete range of products and services** for application management and modernization initiatives:

- Analysis, Maintenance, Documentation
- Modernization: **Conversion, Migration, Re-engineering, Re-platforming, Refacing.**
- Quality: Measurement & Control

We have delivered projects through Europe and the United States.

# Profile Cornerstone and USPs

## How we assist OpenVMS users :

- Migration from OpenVMS to alternative platforms
- Alpha to Integrity (Itanium) porting

→ supported by G4-Analyser for full insight and documentation and supported by G4-Converter for conversion of the code.  
Using the G4-Analyser will reduce Maintenance costs substantially.

# Profile Cornerstone and USPs(2)




- What makes Cornerstone unique ...
- **Best in class conversion tooling platform: the *G4 Platform***
  - Ability to handle application landscapes as a whole
  - Regardless of: complexity, volume, used languages & databases
  - Dynamic parser generators, language independent modeling
  - Almost **any-to-any** conversion
- **Proven conversion strategy**
  - Fully automated, phased (clustered) approach or big bang
  - Retrospective adaptability, **no code freeze**
  - conversion process, manageable
- **Unique G4 whitebox beacon testing methodology – conversion verification**
- **Unique G4 Analyzer support, with dedicated queries**






# G4 Platform

## How it works

### Premises:

-  Complete meta-information decomposition
-  Flexible, generic, dynamic, performant
-  Manageable, language-indepedent

### Technology:

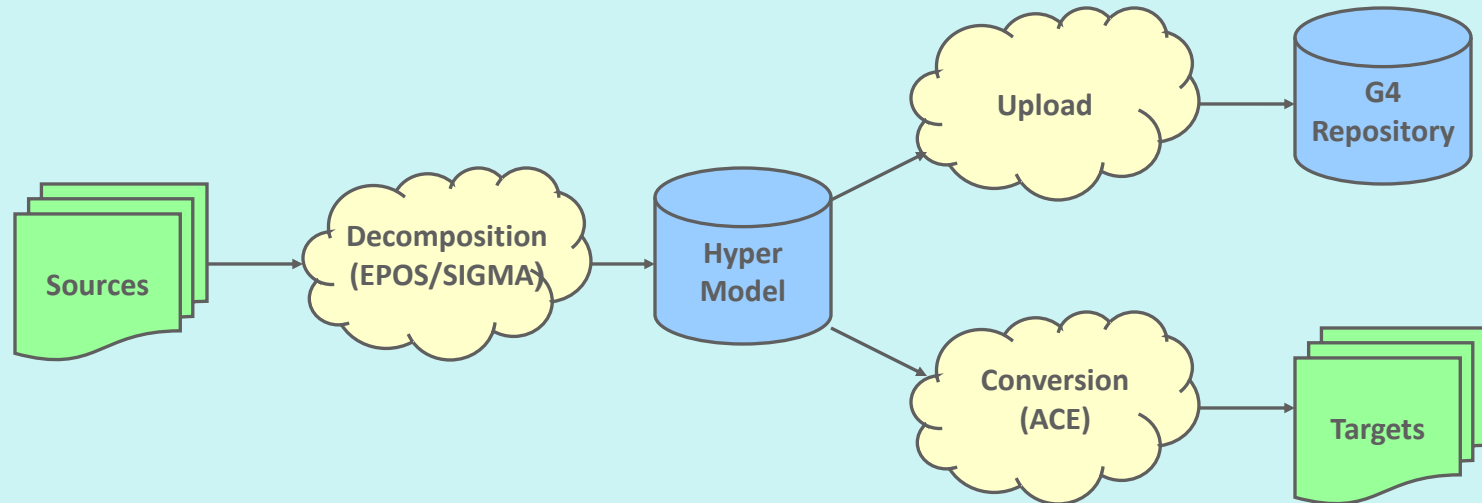
-  EPOS – Generic, dynamic scanning and parsing
-  SIGMA – Programming language-independent modeling
-  ACE – Application conversion and migration

*To Configure Instead of to Program...*

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# G4 Platform

*How it works: general process*



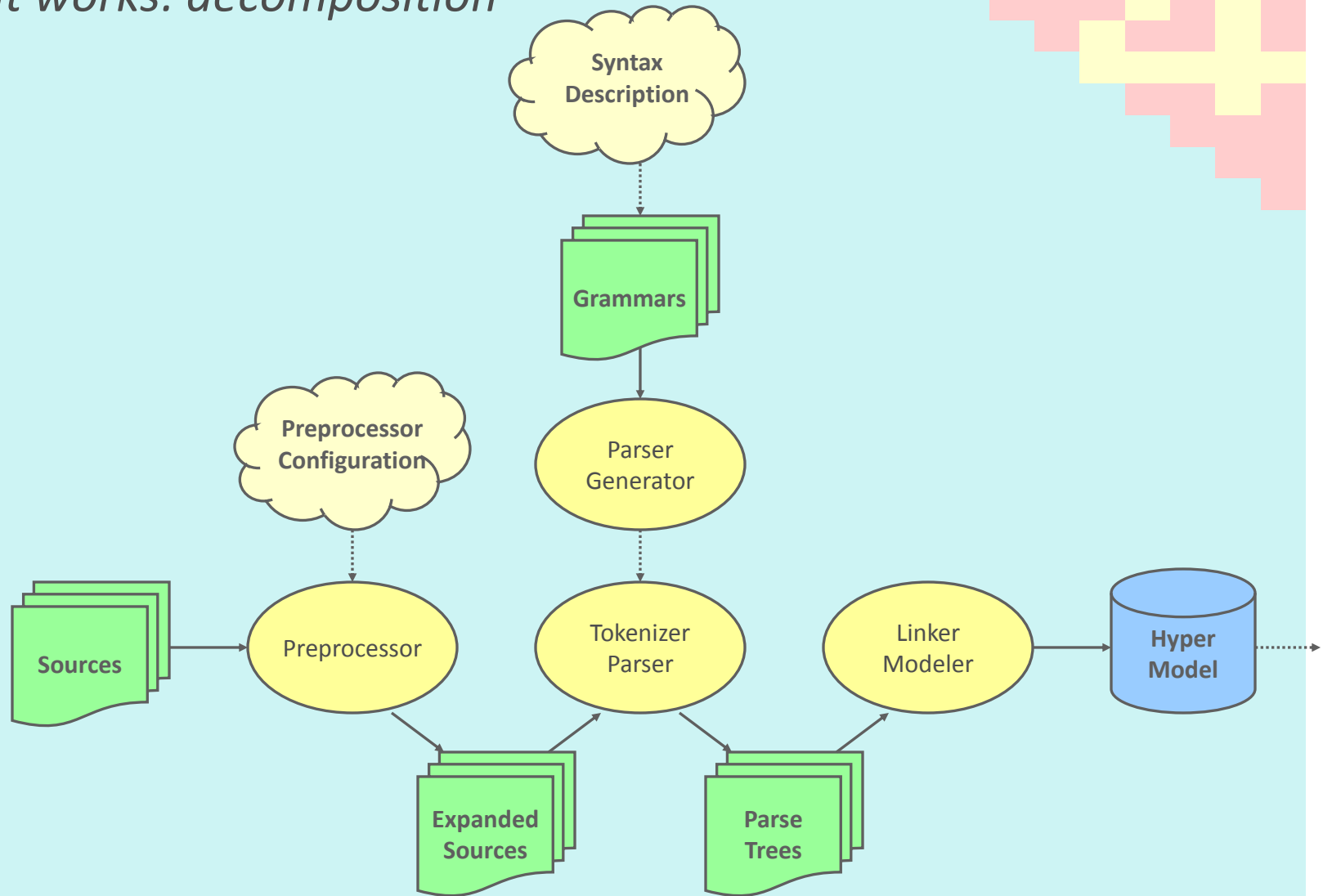
Next pages:

- Decomposition
- Upload
- Conversion

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# G4 Platform

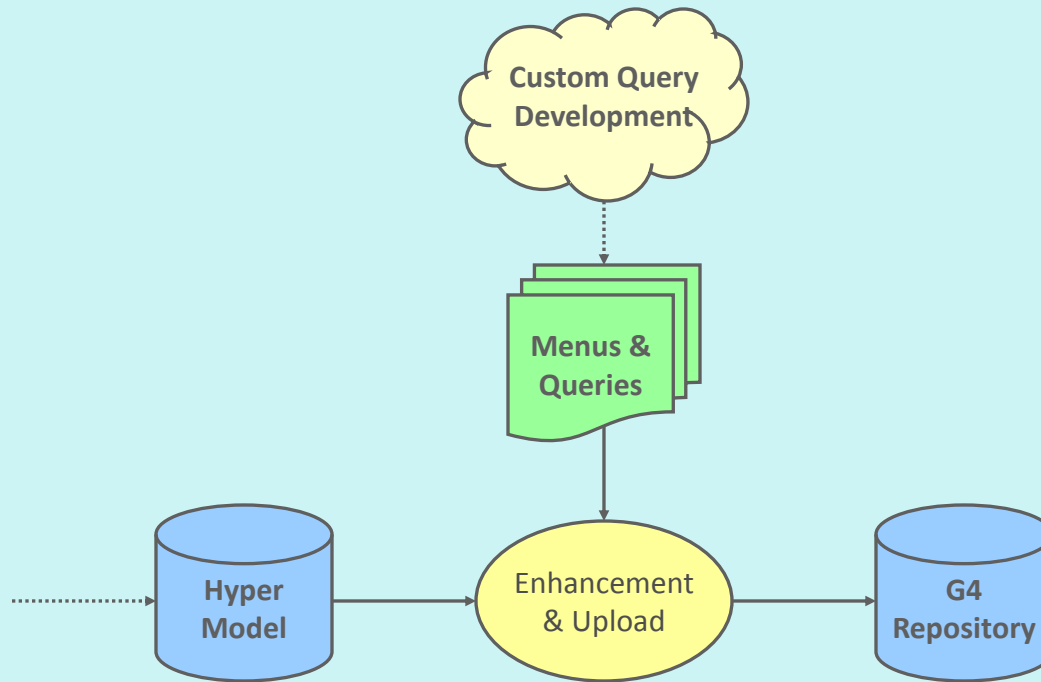
*How it works: decomposition*



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# G4 Platform

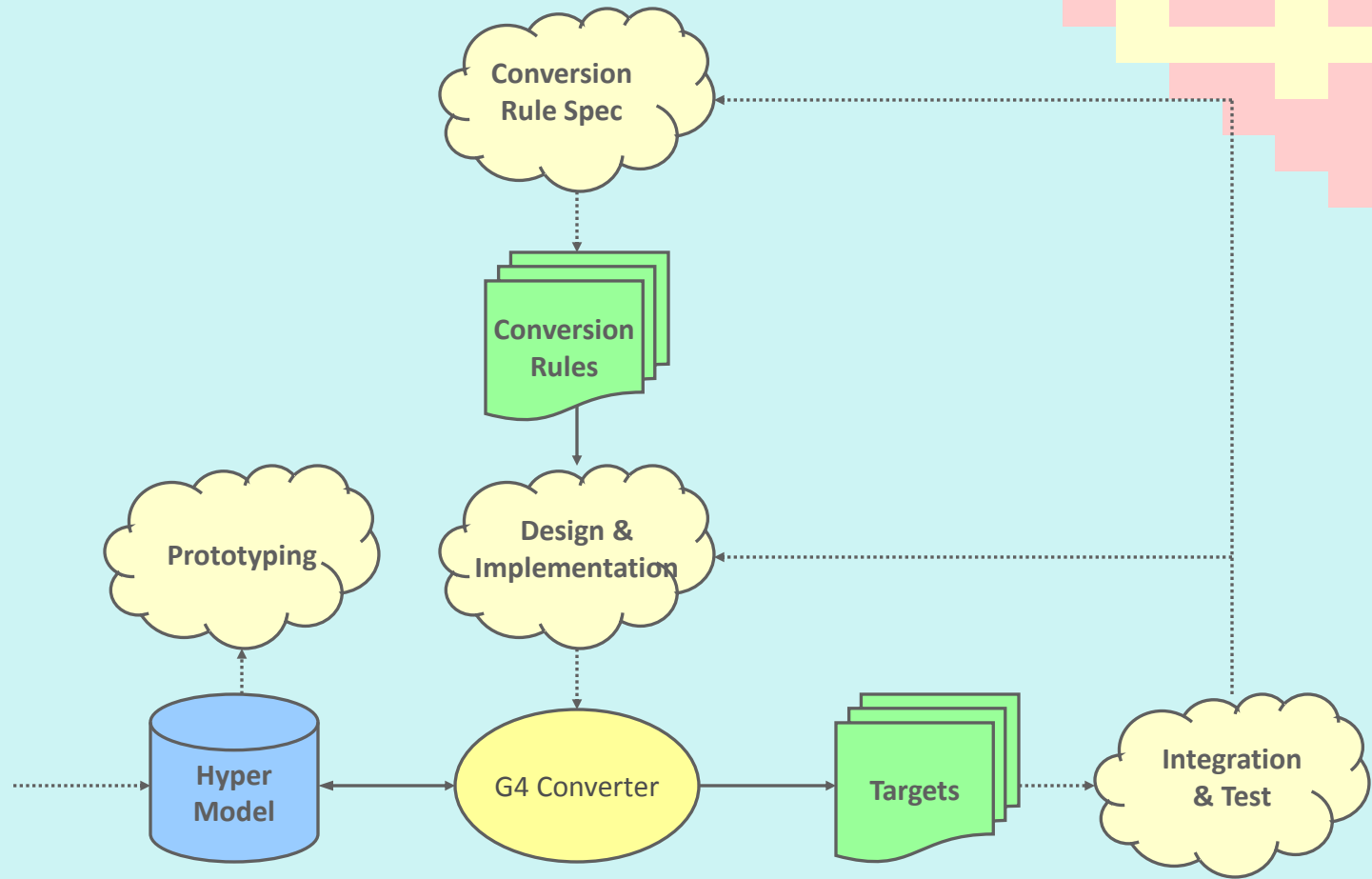
*How it works: upload*



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# G4 Platform

*How it works: conversion*



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# Project approach and execution

## G4 Project Strategy

### *Conversion Processes*

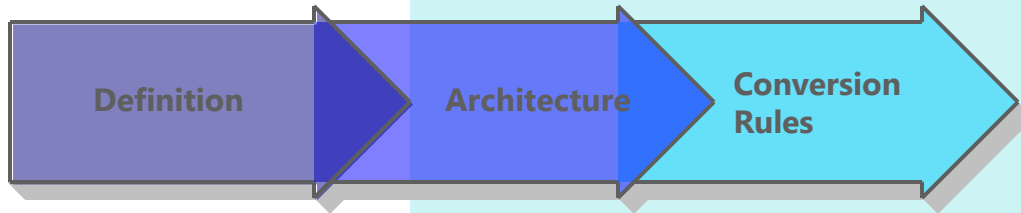
- G Planning, architecturing - setup
- G (Renovation assessment)
- G Prototyping
- G Go, no go decision
- G Conversion of clusters
- G Finalize – big bang
- G Close - deploy

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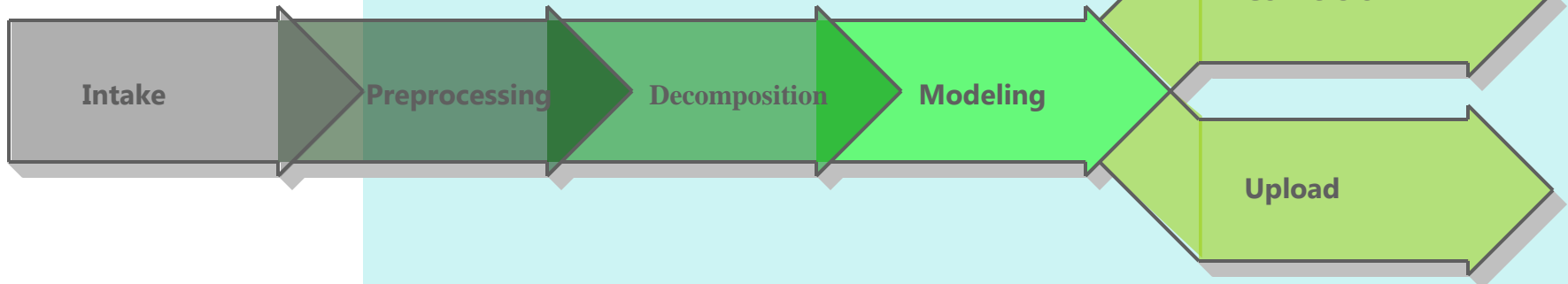
# G4 Project Phases

## 3-Phase Diagram

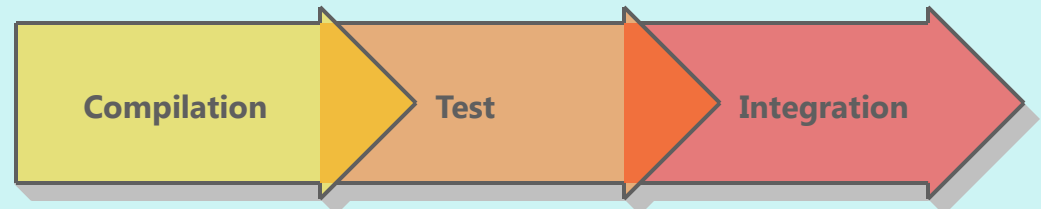
### *Phase I: Assessment*



### *Phase II: Conversion / Upload*



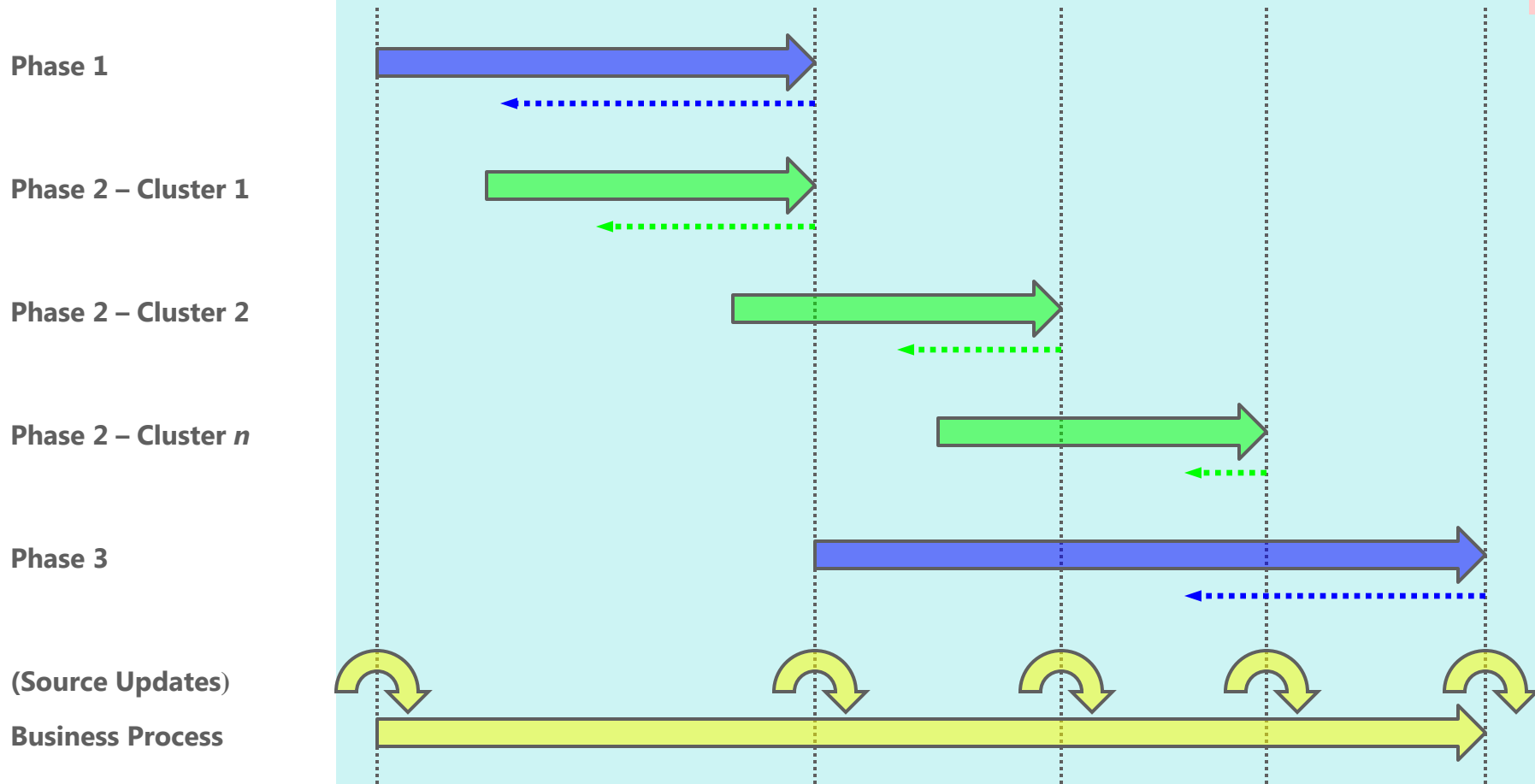
### *Phase III: Implementation*



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# G4 Project Strategy

## Time Line



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# Partners

- Cornerstone's partners :
  - IT vendors
  - System integrators
  - others
- Cornerstone and XDelta recently announced collaboration to combine the high XDelta OpenVMS knowledge and expertise with the Cornerstone analysis and migration capabilities .

This partnership offers a winning solution for OpenVMS customers to migrate to an alternative platform smoothly.