

# Information Management RoadMap: from “Content to Context”

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# Technical Trends

## Software Applications

- Best in breed
- Scalable, collaborative visualization
- Increased use of thin clients

## Software Architecture & Frameworks

- Modularity, towards “plug & play”
- Open standards for data exchange
- Workflow integration

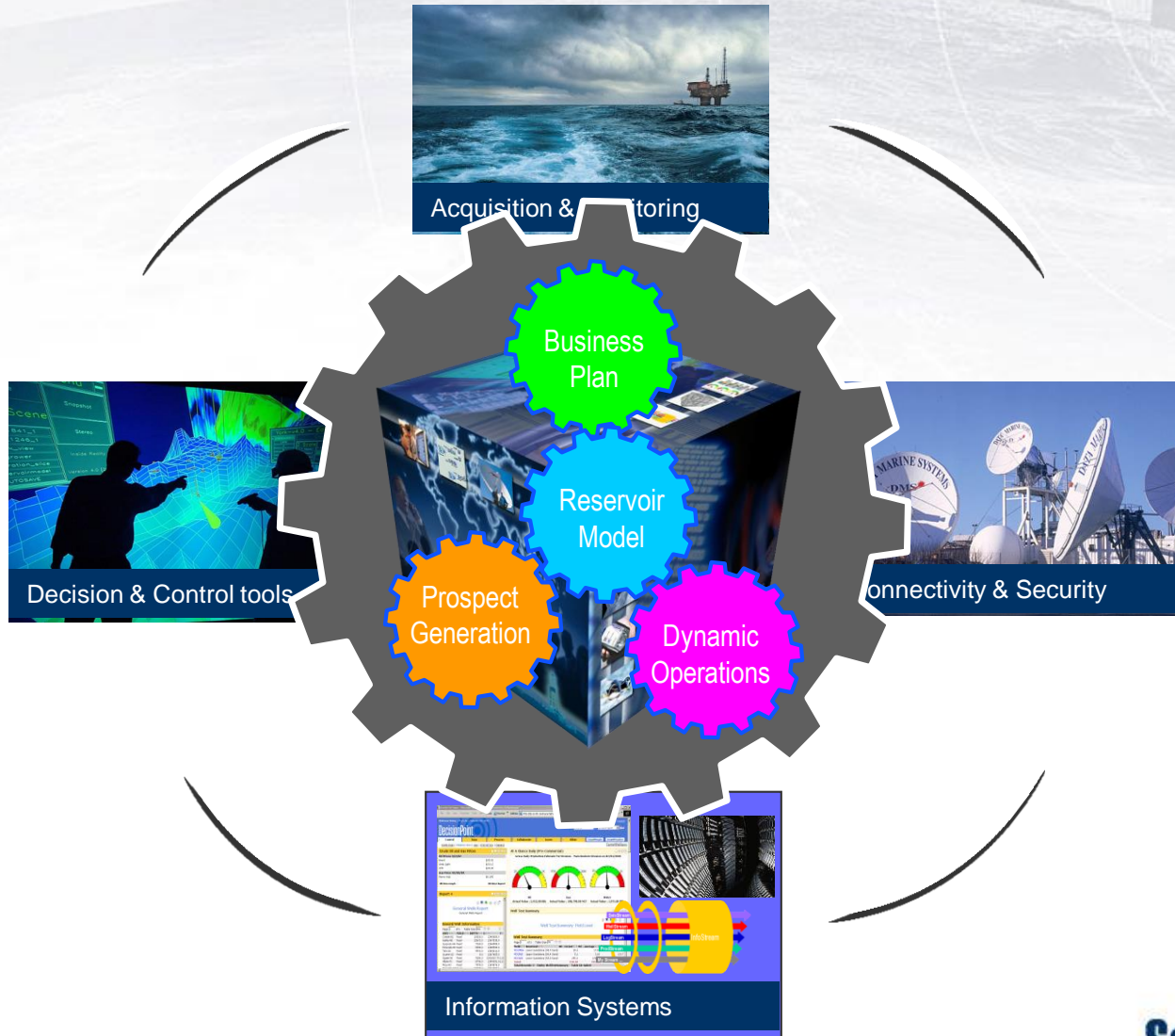
## Information Management

- Data gathering explosion
- Information to knowledge
- Integration with business software

## Computing Infrastructure

- Flexible deployment
- Cost/performance optimization
- Network rig, office & partners

# Enabling Critical Business Processes



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# Data flows and Workflows

InfoStream –  
Optimizing Information Flows

Seismic Information

Well Information

Log Information

Production Information

... Information

Exploration Workflow

Drilling Workflow

Operations Workflow

Production Workflow

Business Workflow

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# Notable Recent Successes

- **Defining business processes**
- **Clarifying the data flows**
- **Implementing Integration**
  - **The Integration Spectrum**
  
- **Focus on Managing Data Content**

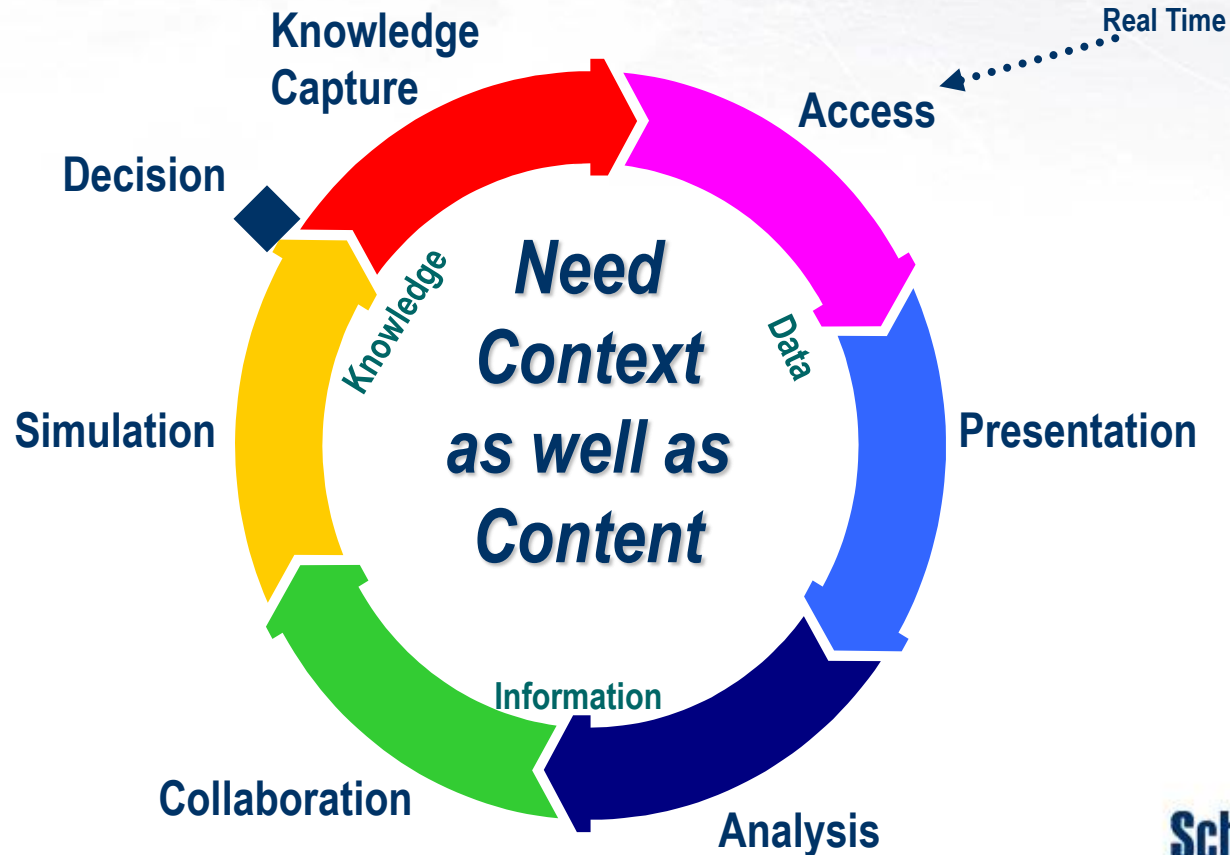
# Market Input

*What we have heard from our customers....*

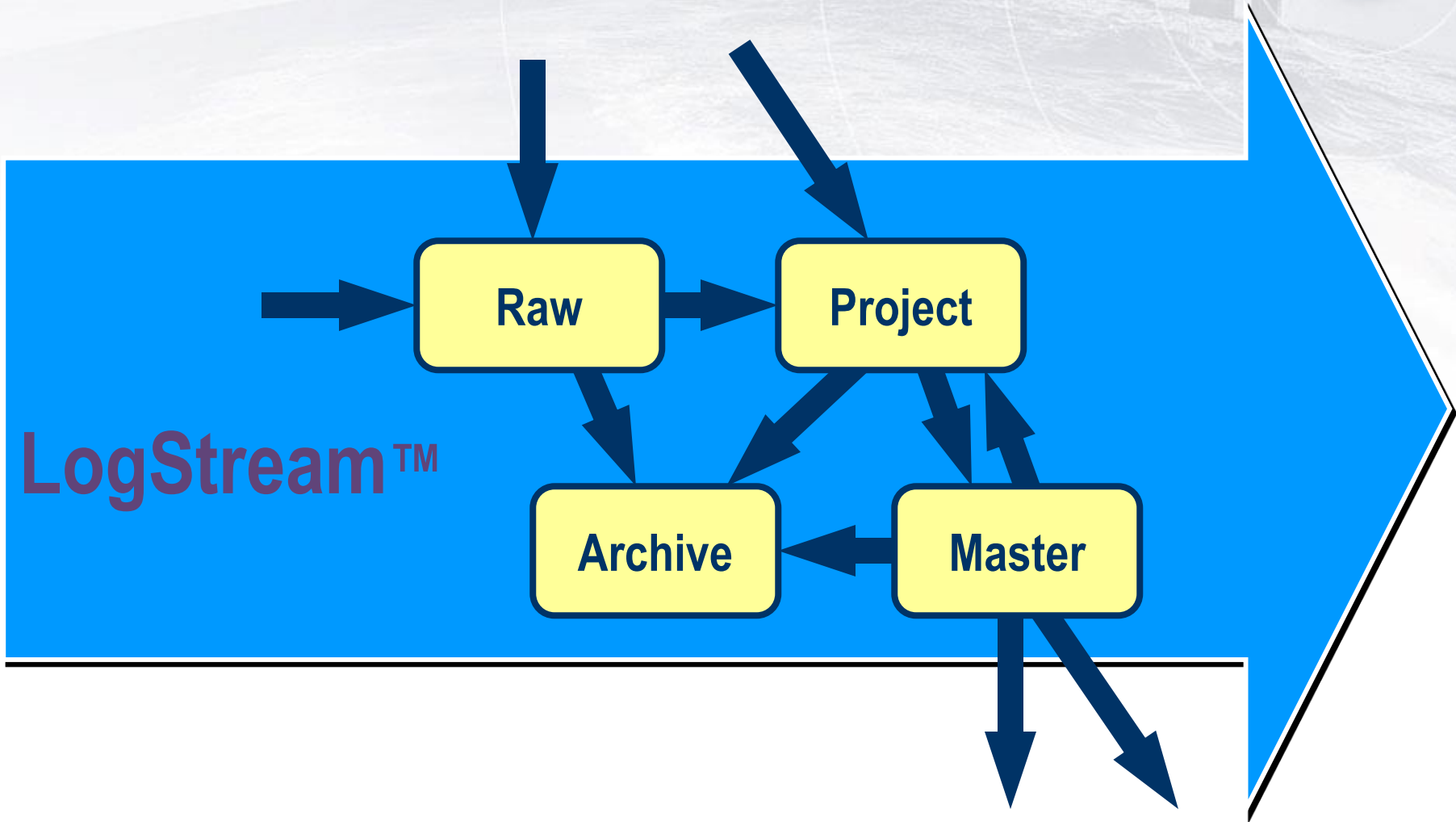
- *“Access and manage information in multiple content sources supplied by third parties and internal systems”*
- *“Increased data capture and better integration”*
- *“We’re moving to lower cost hardware”*
- *“I need to connect my teams across business units”*
- *“Knowledge retention is critical”*
- *“Operational to project to master to results dilemma”*
- *“We are drowning in data, yet starving for information”*

# Managing Content is not Enough

“quality and context of the data is key to re-use,  
knowing what, who, when, and why...”



# Data Roles within a stream



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# Typical data roles

## Raw

- Rapid availability, fidelity rather than quality

## Project

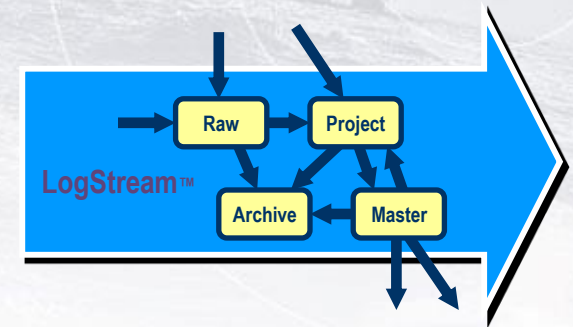
- Suitable, convenient, flexibility rather than precision

## Master

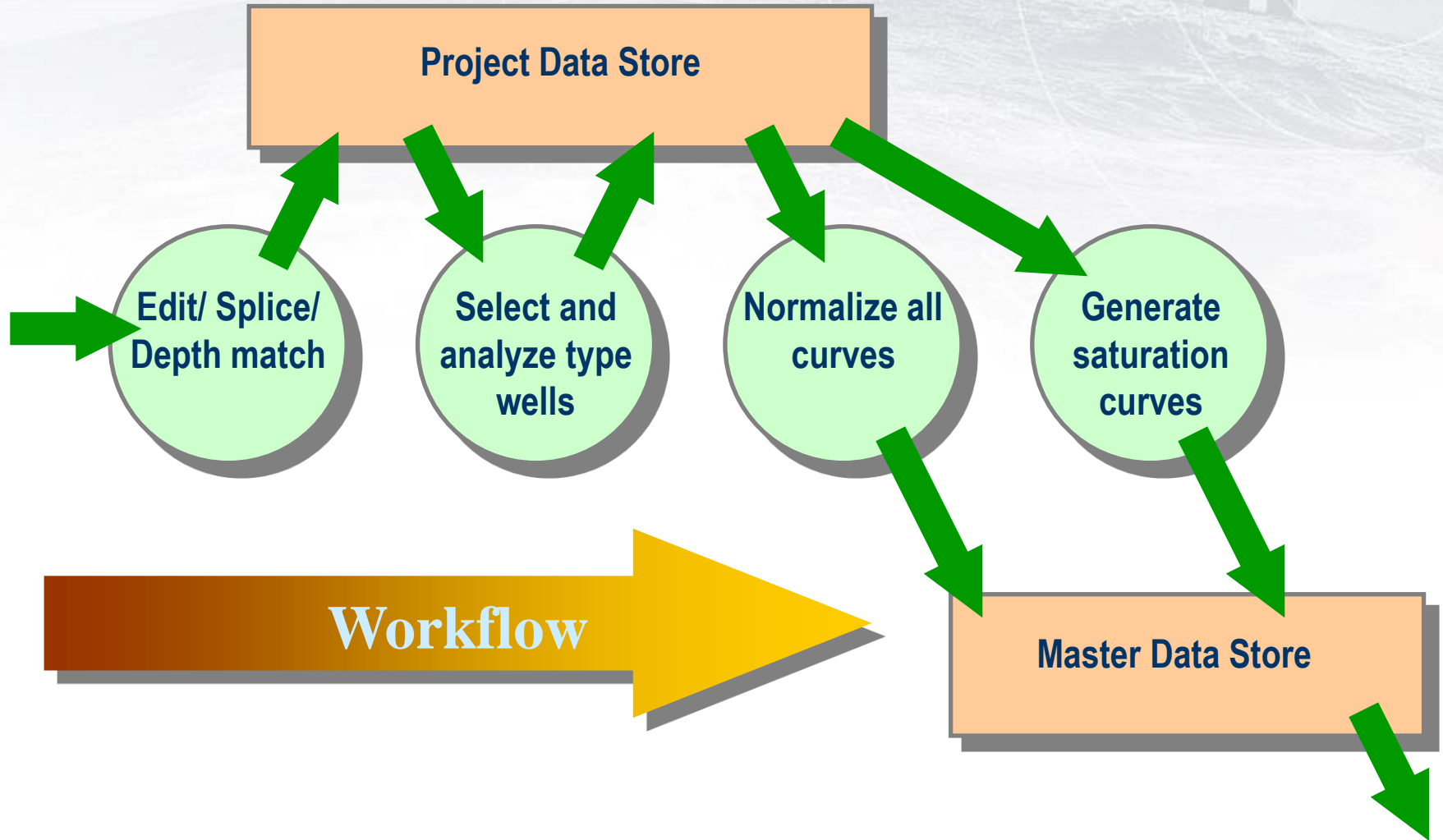
- Quality checked, accountable, trusted rather than easy

## Archive

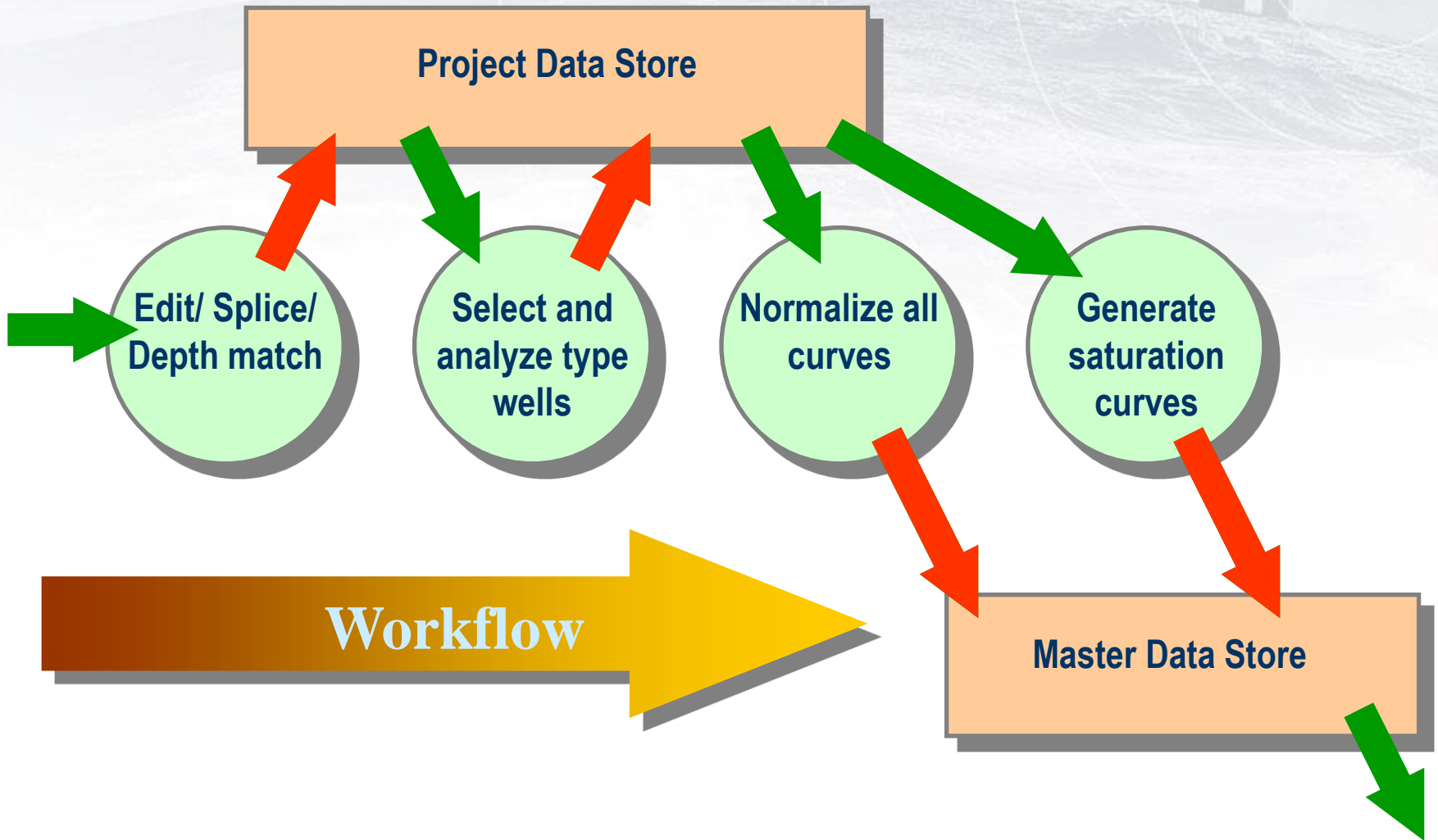
- Long term, recoverable, longevity rather than convenience



# Typical LogStream workflow



# Results



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# Results

- Hold the data that led to the result
  - Underlying data
  - Parameters
  - Assumptions
- Keep all results (not just the final ones)
- Validate the decision
- Allows later reworking of steps in the workflow
  
- Content and Context