

The background is a dark, moody image of water. It features a large, swirling vortex in the center, with concentric ripples emanating from it. Scattered throughout the water are numerous bubbles of various sizes, some of which are in sharp focus, showing highlights and reflections. The overall color palette is dominated by deep blues, greens, and greys, creating a sense of depth and movement.

BLUSOFTWAVE.COM

PRO-ACTIVELY POWERING
SOLUTIONS

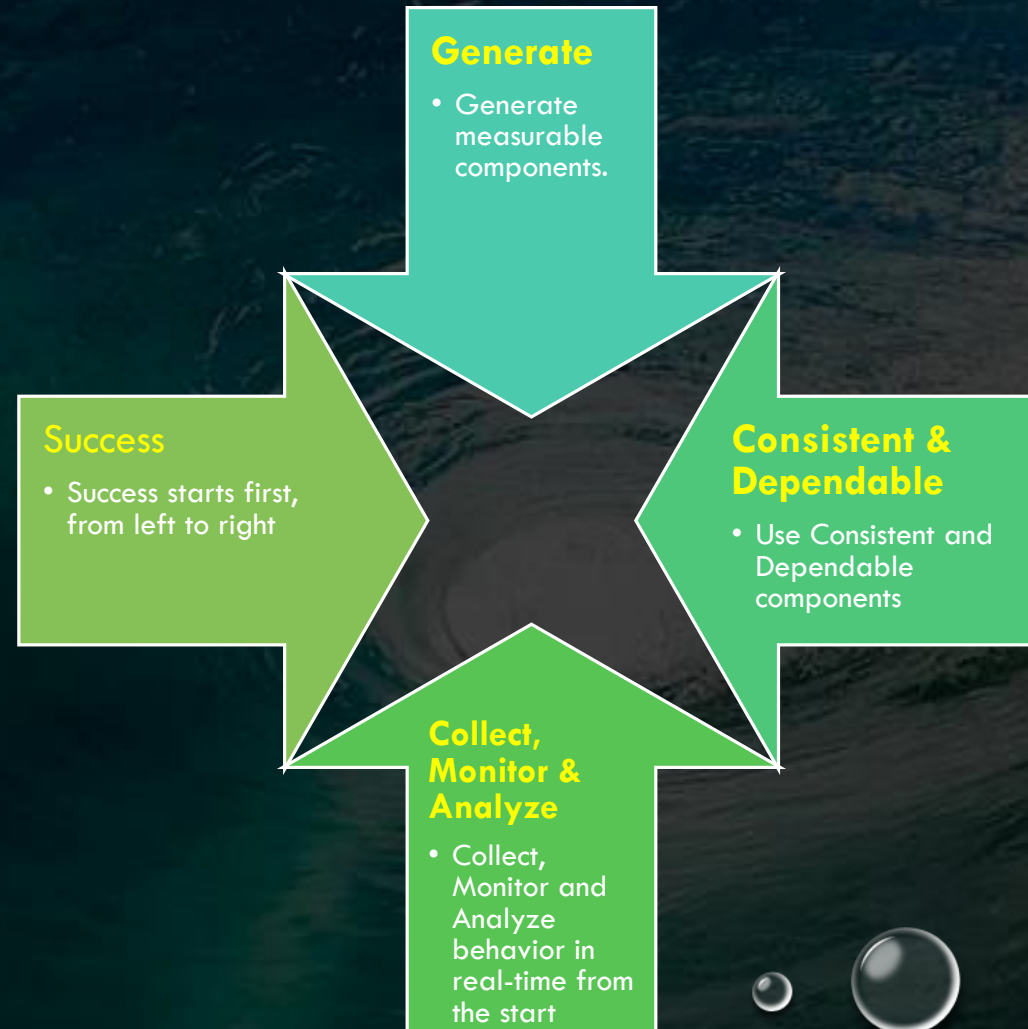
WHY BLUSOFTWAVE.COM ?

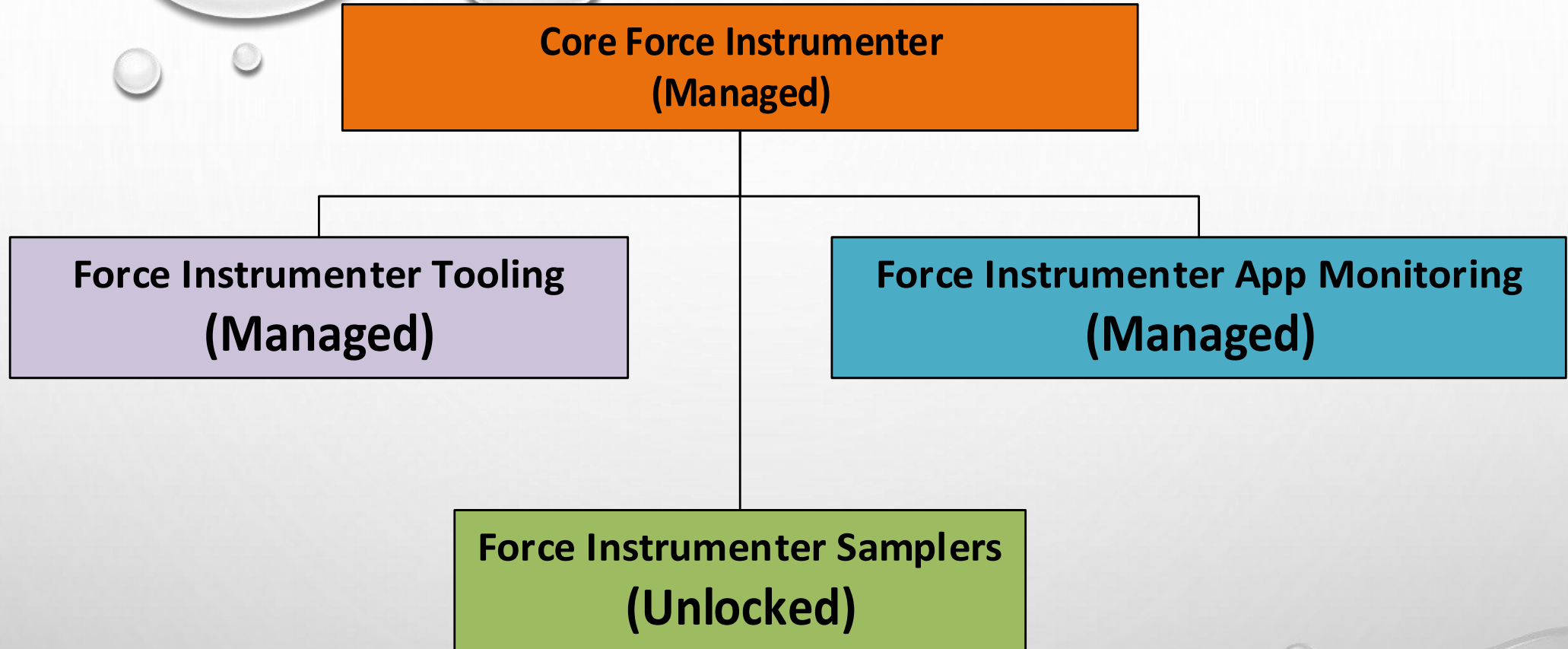
BluSoftwave.com was started to improve elements of development on the Salesforce Platform. The elements on many engagements lacked

- QUALITY
- CONSISTENCY
- REUSE
- METRICS
- DESIGN
- SEPARATION OF CONCERNS

Coming from many years of experience, we decided to bake these aspects in from the start. Start with quality by being pro-active, not re-active.

BE PROACTIVE, NOT RE-ACTIVE



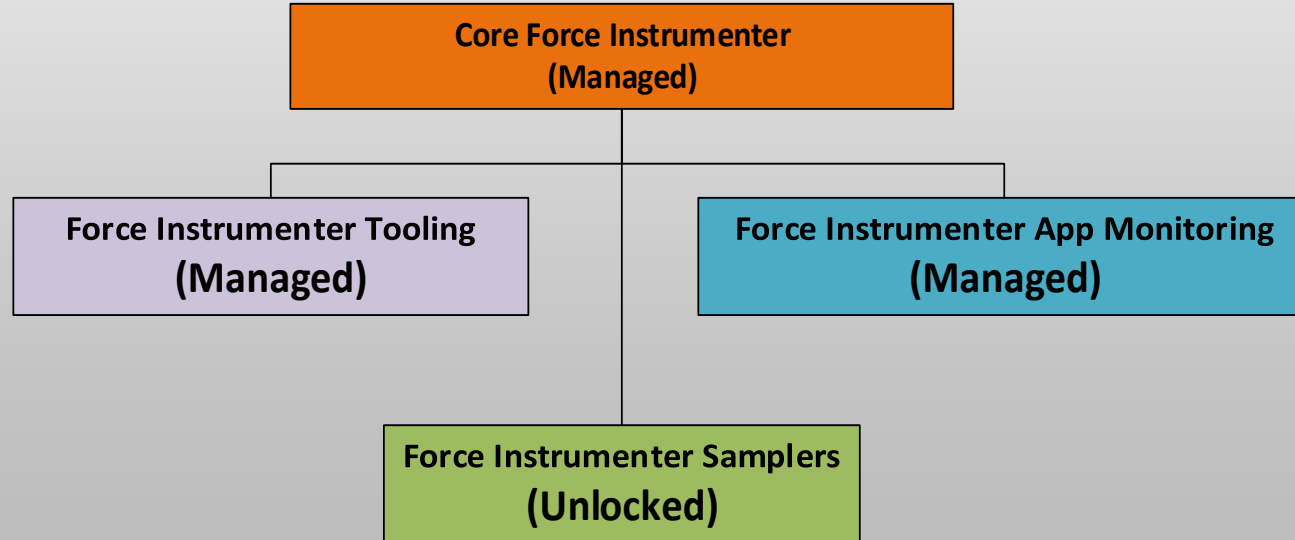


HIGH-LEVEL ARCHITECTURE

UNDERSTANDING THE PARTS AND FUNCTIONALITY

FORCE INSTRUMENTER WAS BUILT TO SUPPORT REALTIME OBSERVABILITY

Observability of your Salesforce Transactions allows you to pin-point issues prior to production. And, if in production, you can observe behavior while it is happening catching the transactions with issues and obtaining their stages of execution. It is the Core package needed in Production Org to observe these trends.



FORCE INSTRUMENTER CORE WAS BUILT ON THE DESIGN PATTERN CQRS WITH EVENT SOURCING

CQRS stands for Command and Query Responsibility Segregation, a pattern that separates read and update operations for a data store. Implementing CQRS in your Salesforce application can maximize performance, scalability, and security. The flexibility created by migrating to CQRS allows a system to better evolve over time and prevents security conflicts from conflicts at the domain level.

Event Sourcing allows the ability to sequence events; namely, those of the underlying transaction. This allows ability to trace, debug and replay actions.



SERVICES



QUERIES



COMMANDS

Core Force Instrumenter (Managed Package)

Observability

Instrumentation & Performance / Metrics

Core (Cross Cutting Concerns)

- Logging / Caching / DTOs
- Query
- Trigger Handling
- Configuration
- Factories
- Readers (Metadata)
- Common Interfaces

Domain

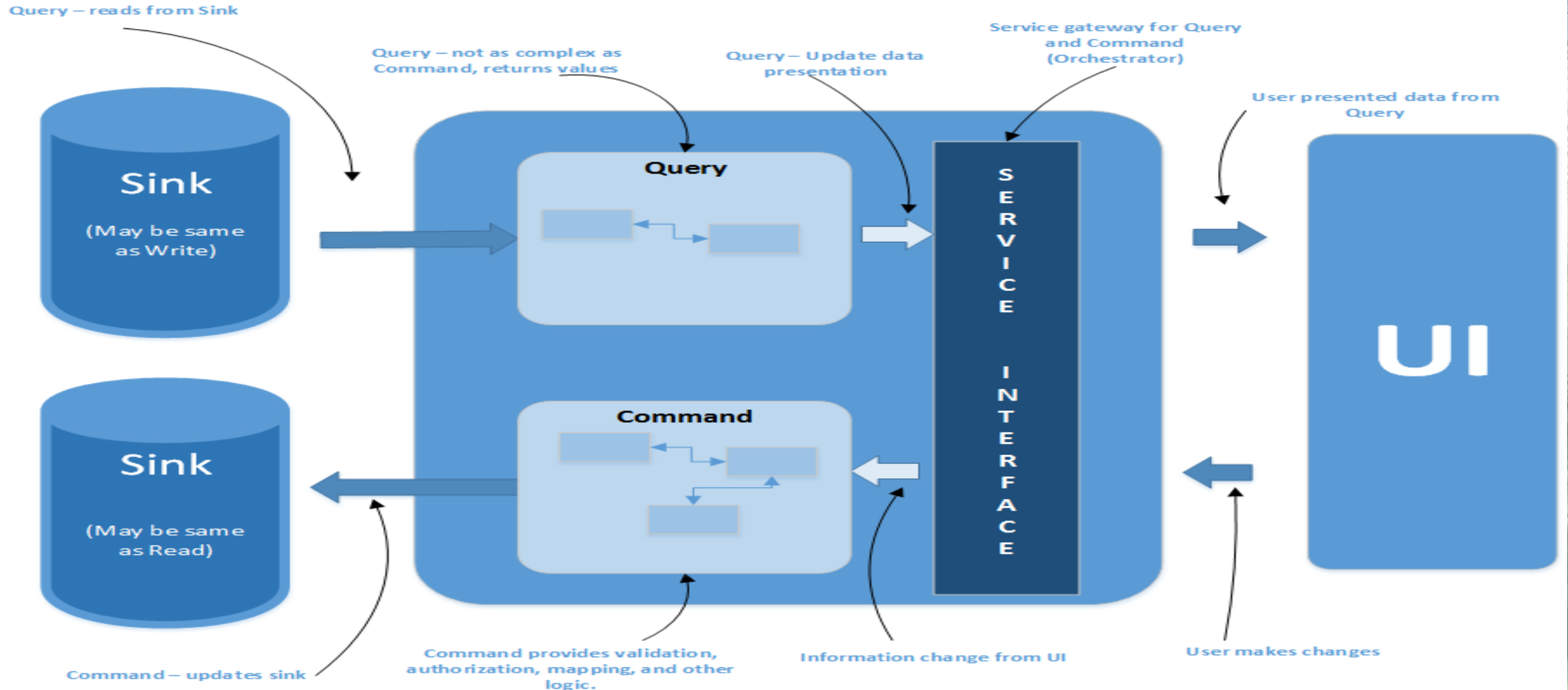
- Data Management
- Event Source
- Presentation
- Event Handling
- Data Weaving/Translation
- User and Query Context

CQRS

- Commands, Query, Services
- Resolver
- Event Sourcing
- Dispatchers / Handlers

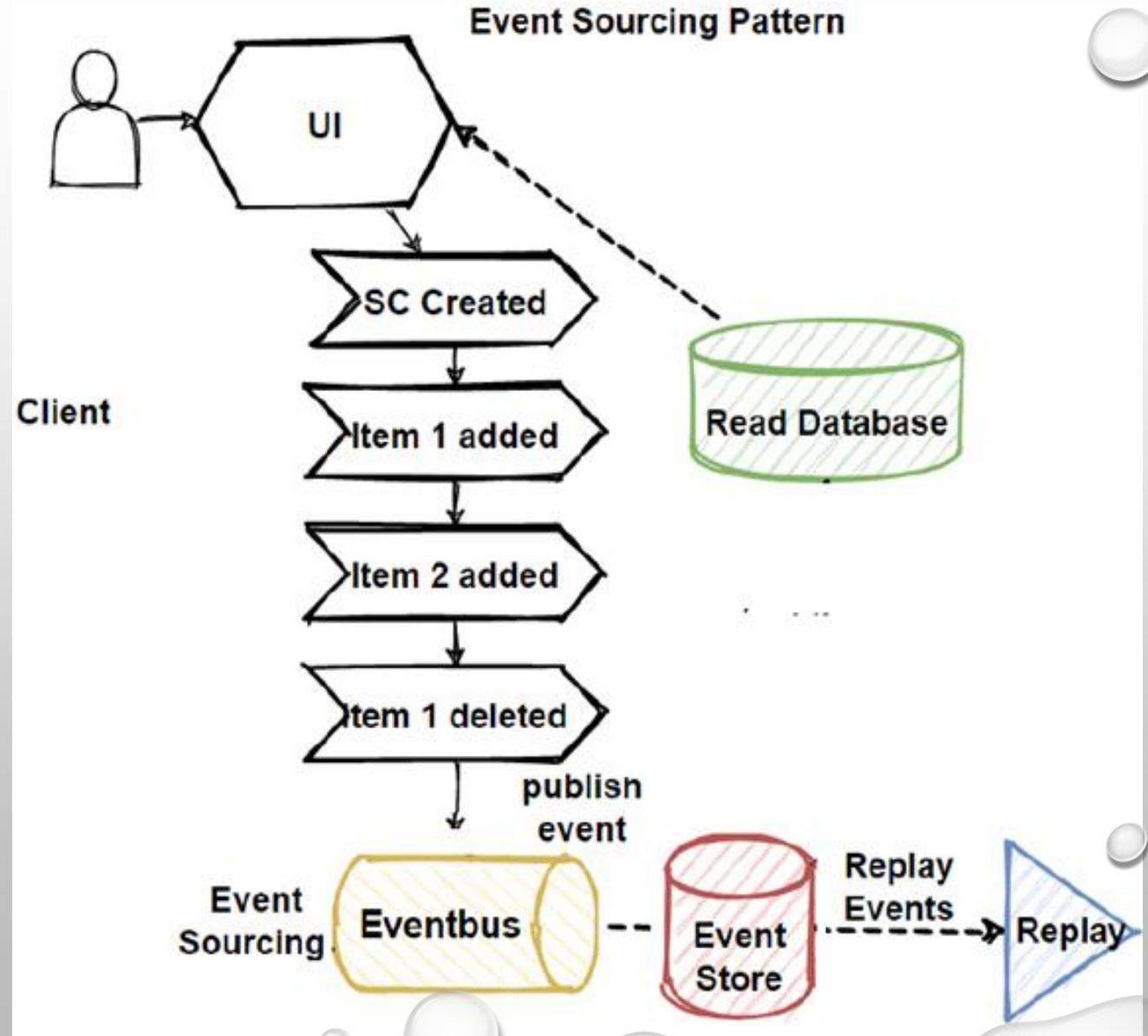
FORCE INSTRUMENTER DESIGN

Command Query Responsibility Segregation (CQRS)



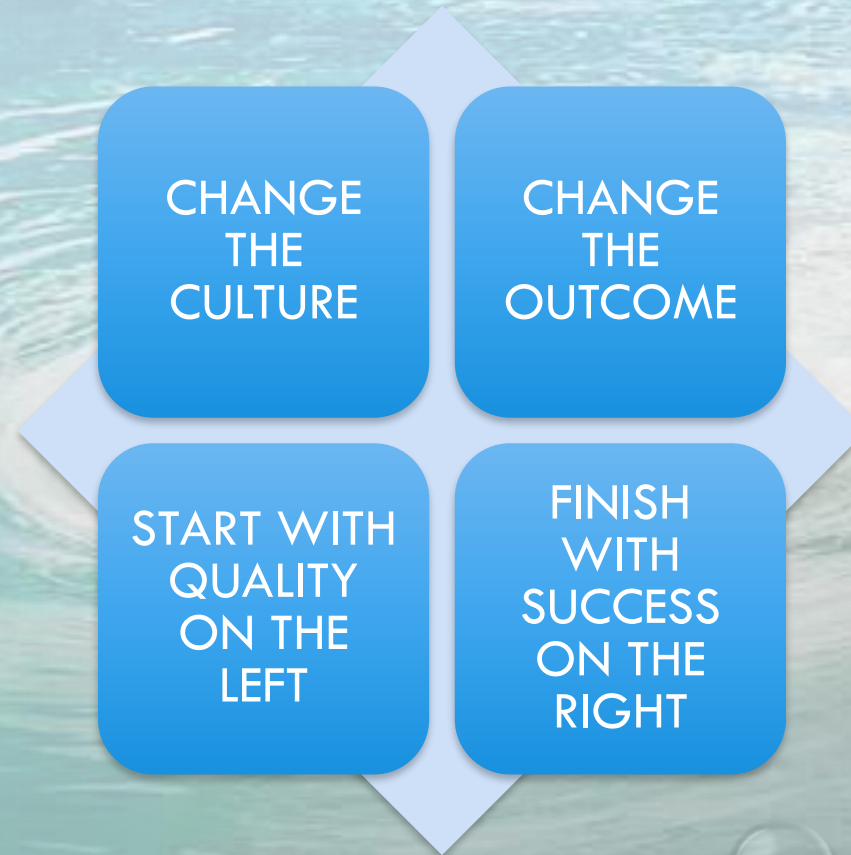
BENEFITS OF EVENT SOURCING

- **FACILITATE THE BUSINESS PROCESS.** QUICKLY TEST MULTIPLE HYPOTHESES TO ANSWER A BUSINESS QUESTION AND MEASURE PERFORMANCE.
- **IMPROVE OPERATIONAL FLEXIBILITY.** IF A BUG OCCURS, INSTEAD OF DOING TIME-INTENSIVE DETECTIVE WORK YOU CAN SIMPLY RERUN A PIPELINE FROM WHATEVER POINT IN TIME YOU NEED.
- **ENSURE COMPLIANCE VIA FULL TRACEABILITY.** IN A DATABASE IT'S DIFFICULT TO DETERMINE HOW DATA MAY HAVE ARRIVED AT ITS CURRENT STATE. WITH EVENT SOURCING YOU CAN ALWAYS RETRACE YOUR STEPS.
- **SUPPORT AN OPEN ARCHITECTURE.** CREATE MANY DIFFERENT PIPELINES; THEN USE A BEST-OF-BREED APPROACH TO YOUR ARCHITECTURE.



OUR GOAL

(BRINGING SOFT SOLUTIONS TO HARD PROBLEMS)



An aerial photograph of a river with a large, circular whirlpool in the center. The water is a deep blue-green color, and the surrounding area is a lighter, sandy or silty brown. Several large, translucent bubbles are floating on the water's surface, particularly in the upper left and lower right corners. The text is centered over the whirlpool.

CONTACT US
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THANK YOU!

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