IMPLEMENTATION OF INVESTMENT BOOK OF RECORD USING APACHE IGNITE

RAFIQUE AWAN
VP, WELLINGTON MANAGEMENT
CHALLENGES FACED BY FINANCIAL FIRMS

- Data volume
- More regulation
- Emerging asset classes
- Scalability
- Complexity
- Time to market
INVESTMENT BOOK OF RECORD (IBOR)

Trading systems

Accounting system

Other back office

Portfolio management

Risk management

Regulatory & Compliance
WHY APACHE IGNITE/GRIDGAIN

- Horizontally scalable
- In-memory
- Co-locate data and compute
- Distributed SQL
- Operational & analytic workflows
- Consistent
LEGACY VS IN-MEMORY BASED IBOR

Use cases

- Trailing 1-yr performance
- Daily holdings
- Daily exposures

Time in seconds

- Legacy
- New
LESSON LEARNED

- One size doesn’t fit all
- Memory is still expensive
- Early engagement

IBOR

- Role of Apache Spark
- Durable memory
- GridGain
“If we can provide a **better pension for a firefighter**, an **additional scholarship for a student** at a university, another **hospital bed** for an organization that’s involved in healthcare, because we’ve done a good job managing their portfolios, in our small way, we’ve been able to have a positive impact.”

Michael Boudens, Director, Global Relationship Group