# ICEE Transport Method Enables WAN Data Analyses



Memory-to-memory data delivery (code coupling)
Transparent workflow execution

ADIOS

Data Generation

FastBit Index

Data Trans form

Compre ssion

Data Stream

ICEE Transportation
- FlexPath/EVPath
- DataSpaces

ADIOS

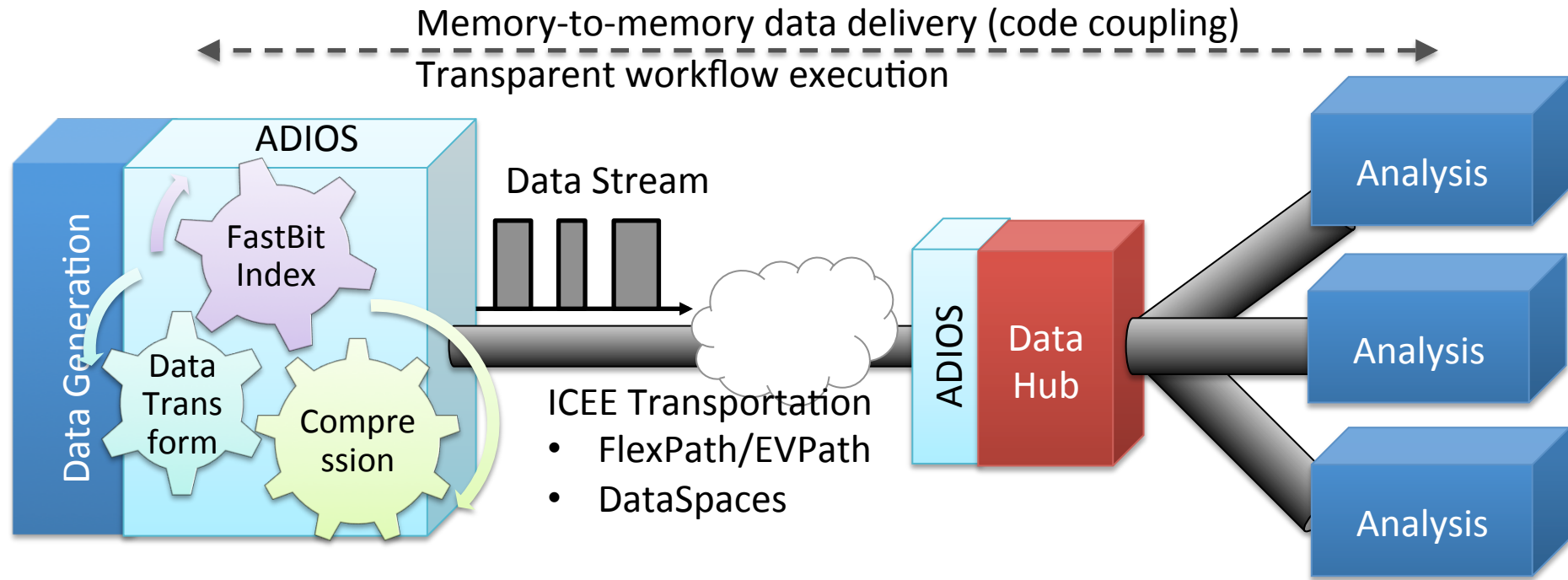Data Hub

Analysis

Analysis

Analysis

- **Challenge**: large amounts of data produced by experiments and simulations need to be analyzed in near real-time

- **Solution Strategy**: high-level abstraction enable easy-to-use programming model in the form of ADIOS
  - Efficient underlying transportation: FlexPath (GATech), DataSpaces (Rutgers)

- **Results**: four use cases demonstrated at SC14 -- fusion blob detection, ECEI image processing, microscopy image analysis, and materials design