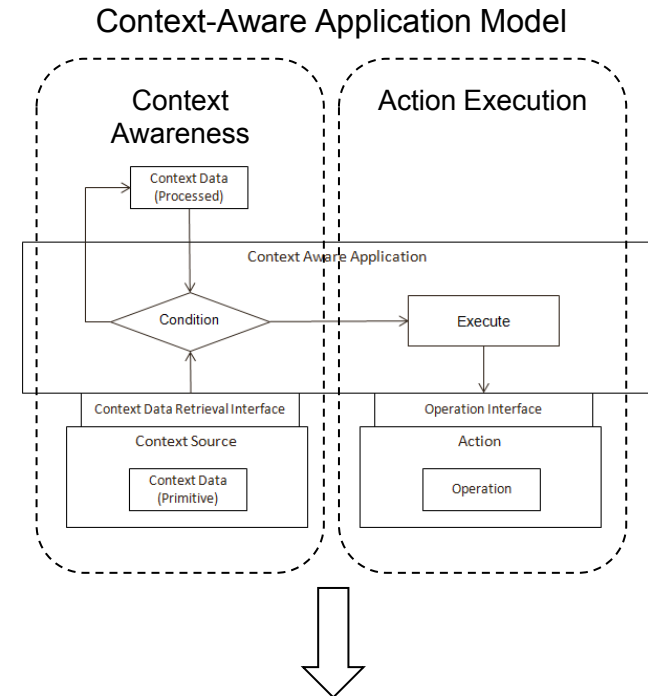


CAPAS: Context Aware Personalization of Application and Services

- **Problems and motivations:**

- Contexts are everywhere and are heterogeneous in nature.
 - Various sensors and services from different domains like Telco, IT, Web, etc.
- Context Aware applications have complex design.
 - Context data in its raw or primitive format would be difficult and/or laborious to use and model in applications as the context data could involve numerals and/or the data required could be from multiple context sources.
- Business requires intelligent resource utilization mechanisms for context-aware applications.
 - Process-intensive or long running applications are not suitable to be run on low capability terminals on which the application action needs to be performed.



- **CAPAS Objectives:**

- Provide a multi-domain context gateway (context cloud).
- Distributed architecture for context processing and action execution.

Ideas and Results

• Context Transformation

- CAPAS Platform provides capabilities to transform primitive contexts to processed contexts using transformation rules.
- Thus the applications can be modeled easily using the processed contexts thus avoiding the usage of fine grained primitive context details.

• Distribute Execution

- Context Transformation execution on CAPAS server.
- Process-intensive and long-running applications execution on CAPAS server.
- Terminal API executions on terminal using remote API invocations from CAPAS server.

Features	CAPAS
Application Type	Web-based application, Android terminal application
Context types	Internet API contexts, Android terminal contexts, Environment sensor contexts.
Context data level	Processed and primitive context data
Terminal contexts and actions	Local and Remote

