

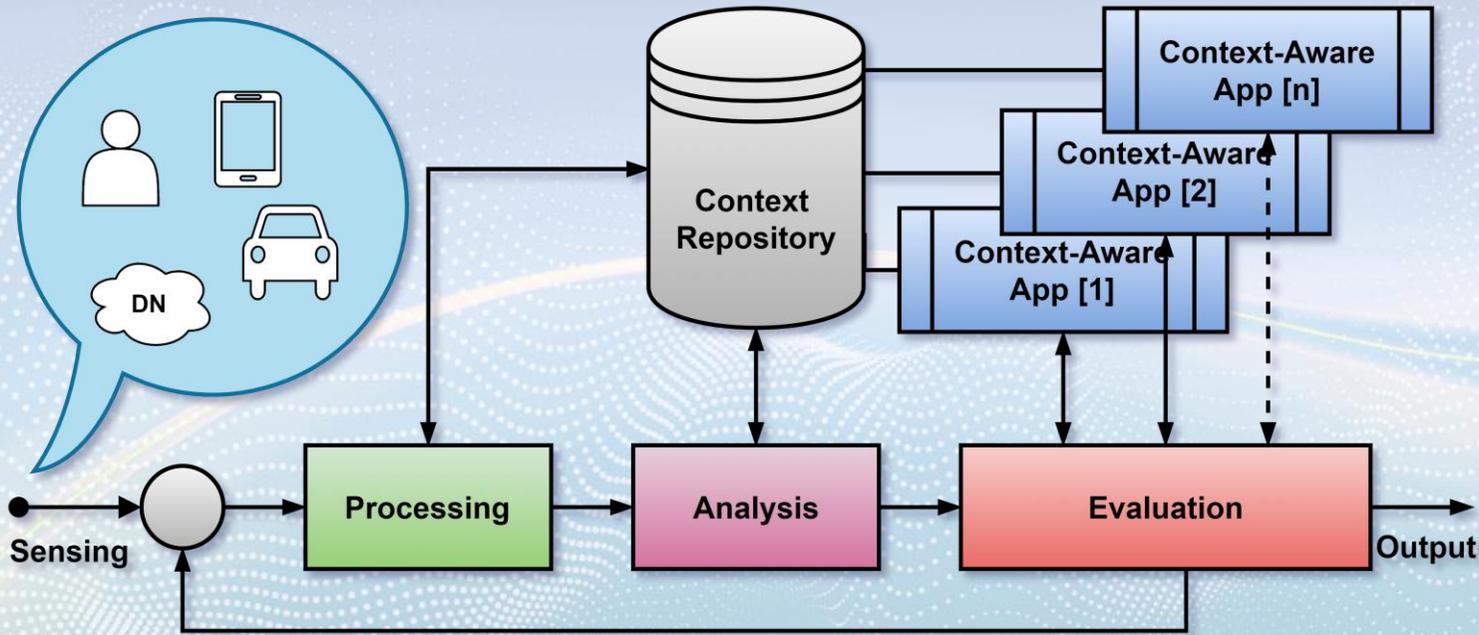
A Context Management Architecture for Decoupled Acquisition and Distribution of Information in Next-Gen. Mobile Networks

Franc Pouhela



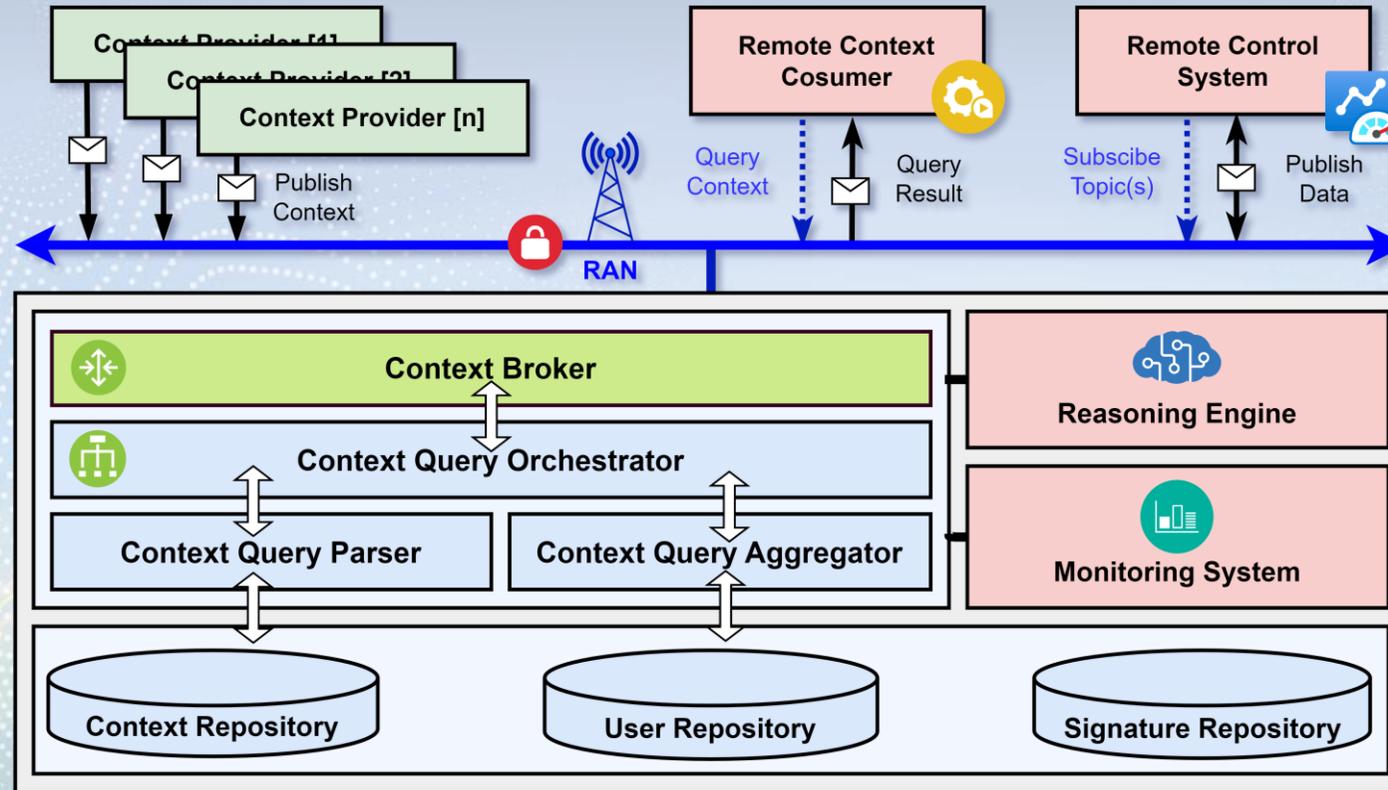
Why Next Gen. Mobile Networks Need CoMa

- Improve Security, Privacy and Trust
- Optimization of Resource Usage
- Adaptive Service Provision
- Heterogeneous Network
- Massive Connectivity



Context Source	Context Domain	Context Parameters
<input type="checkbox"/> Network	<ul style="list-style-type: none"> • Network Topology • Services, Slices • Resource Usage 	<ul style="list-style-type: none"> • Base station coordinates, • Internet, Streaming, • Power Consumption,
<input type="checkbox"/> Device	<ul style="list-style-type: none"> • Soft- Hardware Configuration • Targeted Services 	<ul style="list-style-type: none"> • OS, Antennas, Manufacturer, • Internet, Calls, Messaging,
<input type="checkbox"/> User	<ul style="list-style-type: none"> • Geo-Location, Race, Social Status 	<ul style="list-style-type: none"> • City, Job, Habits, Preferences, etc.
<input type="checkbox"/> Application	<ul style="list-style-type: none"> • Connectivity Requirements 	<ul style="list-style-type: none"> • Protocol, Slice, Latency, etc.

Context Management Architecture



Context Query Sequence

