Smart City

Local City Cloud

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Smart Cities are sophisticated ecosystems of inter-operating software services. Many of these services are co-located within the city’s physical infrastructure.

To be economically sustainable, such software ecosystems must be:
- Operationally simple to install, manage, scale, and to maintain over extended periods of time
- Robust to unforeseen environmental failures and cyber attacks
- Agile and adaptive with the ability to cost-effectively adapt to environmental changes, service enhancements and encourage re-use/solution sharing across different environments

The Paremus Service Fabric provides the necessary modular software foundations upon which innovative Smart City services can be rapidly created, deployed and subsequently cost-effectively maintained.

Advanced modular AI-enabled services may be created which over time, deliver a highly adaptive Smart City Software Nervous System, that crucially remains operationally simple to manage and maintain.

Built from the ground up using the latest OSGi™ specifications, the Service Fabric is able to host both sophisticated modular applications, REST Container deployed microservices or legacy applications.

City authorities can simply and rapidly create their own Smart City cloud infrastructure using physically local compute resources power by the city’s own smart grid energy infrastructure.

These autonomous city fabrics may be aligned to core Smart City functions: i.e., transport management, fleet management, environmental services, ambient assisted living & emergency services. These functionally aligned fabrics then create Smart City federations providing an operational overview of the entire Smart City ecosystem.

OSGi enabled adaptability allows cities to work together to develop common services to address common problems; then adapt these to their own specific environments and requirements.

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**Economically Sustainable Smart City must be Modular, Adaptive & Operational Simple**

- Energy & Smart Home Environment Sensing
- Traffic Flow Service
- Shared Atomic building blocks
- OSGi Open Standards