

CHALLENGES	SOLUTIONS	RESULTS
<p>Economic Sustainability & Longevity</p> <p>Smart Cities are sophisticated ecosystems of inter-operating software services. Many of these services collocated within the city's physical infrastructure.</p> <p>To be economically sustainable, such software eco-systems must be:</p> <ul style="list-style-type: none"> - 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 	<p>Modular Self-Managing Platform</p> <p>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.</p> <p>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.</p> <p>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.</p>	<p>Foundations for an Autonomous Smart City</p> <p>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.</p> <p>These autonomous city fabrics may be aligned to core Smart City functions: i.e., <i>transport management, fleet management, environmental services, ambient assisted living & emergency services</i>. These functionally aligned fabrics then create Smart City federations providing an operational overview of the entire Smart City eco-system.</p> <p>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.</p>

