



# Use cases

## Streaming Analytics driven into action

 IoT	 Telecom	 Retail	 Finance	 Health	 Smart cities
<ul style="list-style-type: none"> <li>· <b>Smart homes</b> (energy, water and waste management, remote control systems, security systems, art preservation)</li> <li>· <b>Smart lifestyles</b> (content consumption, fitness, fashion, pet care, travel)</li> <li>· <b>Smart environment</b> (forest fire detection, air pollution and snow level monitoring, landslide and avalanche prediction, earthquake early detection)</li> <li>· <b>Water monitoring</b> applications (tap water quality, chemical leakage detection, sea pollution monitoring, water leakage/waste detection, flood prevention)</li> <li>· <b>Physical security</b> applications (perimeter security control, radiation and hazardous substances measuring, liquid detection)</li> <li>· <b>Smart agriculture</b> (soil humidity and pest monitoring, greenhouse networks, offspring care, animal tracking, weather station control)</li> <li>· <b>Smart logistics and industrial control</b> (quality of shipment conditions, item and storage incompatibility detection, fleet tracking, vehicle and machine autodiagnosis, air/temperature/ozone monitoring)</li> <li>· Real-time visualizations</li> <li>· Automated user and consumer push-based notifications, updates and alerts</li> <li>· Automated shutdowns, wraparounds and selective process re-routing</li> <li>· Automated equipment and network diagnostic, self-maintenance and repairs</li> <li>· Continuous load into any number of destinations, simultaneously: Hadoop, NoSQL platforms, Oracle, SQLServer, and RDBMS platforms such as Teradata</li> </ul>	<ul style="list-style-type: none"> <li>· Optimization of network utilization</li> <li>· Network Capacity planning</li> <li>· Anomaly detection &amp; troubleshooting</li> <li>· Monitoring and protection</li> <li>· Least-cost routing</li> <li>· Customer loyalty management</li> <li>· Churn prevention</li> <li>· Device analysis</li> <li>· Campaign management and precision marketing</li> <li>· Billing accuracy and revenue</li> <li>· SLA management</li> <li>· Interconnect billing analysis</li> <li>· Real-time visualization</li> <li>· Automated reports</li> <li>· Self-healing networks</li> <li>· Contact center and user alerts</li> <li>· Automated service personalization</li> <li>· Automated yield management and dynamic pricing</li> <li>· Continuous load into any number of destinations, simultaneously</li> </ul>	<ul style="list-style-type: none"> <li>· Customer behavior prediction models</li> <li>· 1-to-1 marketing campaigns</li> <li>· Dynamic supply chain management</li> <li>· Real-time data security and fraud monitoring</li> <li>· Geolocation- based services</li> <li>· Dynamic staffing and operations</li> <li>· Real-time, cross-channel visualizations</li> <li>· Automated inventory, staffing and scheduling updates</li> <li>· NFC payments</li> <li>· Automated system and user alerts</li> <li>· Automated network rerouting and shutdowns</li> <li>· Automated promotions</li> <li>· Continuous load into any number of destinations</li> </ul>	<ul style="list-style-type: none"> <li>· Customer churn prediction models</li> <li>· Real-time staffing</li> <li>· Responsive security and fraud monitoring</li> <li>· Dynamic credit risk scoring</li> <li>· Real-time compliance analytics</li> <li>· Real-time, cross-channel visualizations</li> <li>· Automated reports</li> <li>· Automated security alerts</li> <li>· Automated network rerouting and shutdowns</li> <li>· Automated customer profile updates</li> <li>· Continuous load into any number of destinations, simultaneously</li> </ul>	<ul style="list-style-type: none"> <li>· Real-time patient monitoring</li> <li>· Dynamic inventory tracking</li> <li>· Real-time conditions monitoring (fridge and warehousing, radiation levels, etc.)</li> <li>· Real-time data security and fraud monitoring</li> <li>· Real-time medical robotics operations and control</li> <li>· Geolocation- based services (i.e. fall detection)</li> <li>· Dynamic dispensing systems</li> <li>· Real-time, cross-channel visualizations</li> <li>· Automated health record updates</li> <li>· Automated inventory, staffing and scheduling updates</li> <li>· Automated patient, system and system user alerts</li> <li>· Automated medical device and network repairs and shutdowns</li> <li>· Automated treatment updates and delivery</li> <li>· Continuous load into any number of destinations, simultaneously</li> </ul>	<ul style="list-style-type: none"> <li>· Real-time city planning</li> <li>· Real-time traffic monitoring and control</li> <li>· Smart water, lighting and waste management</li> <li>· Real-time air, soil and water quality monitoring</li> <li>· Early fire, flood, and earthquake detection</li> <li>· Structural health monitoring</li> <li>· Noise level monitoring</li> <li>· Real-time visualization</li> <li>· Automated reports</li> <li>· Automated cold chain maintenance</li> <li>· Automated/smart parking</li> <li>· Automated traffic congestion and fire response models</li> <li>· Alerts for system health or security breaches</li> <li>· Automated shutdowns</li> <li>· Automated scheduling and staffing for maintenance and repairs</li> <li>· Continuous load into any number of destinations, simultaneously: Hadoop, NoSQL platforms, Oracle, SQLServer, and RDBMS platforms such as Teradata</li> </ul>