

Smarter Cities and Internet of Things

Ron Baker

Distinguished Engineer, Chief Architect Smarter Cities & Operations

IBM Software Solutions Group

Abstract:

The amount of data gathered by Cities is growing at an astounding rate, and the adoption of mobile devices and infrastructure sensors has fueled that growth. This data holds insights that can be harvested for understanding trends, optimizing resources, and making better decisions. This talk will cover the current convergence of technologies and techniques that making this possible, and give several examples that we've encountered. Included is an explanation of the analytics used in these cases, and references to more detail.

The examples cover the full spectrum of City services, from planning to infrastructure management to social services, as well as other venues that have city-like characteristics. Finally, the impact of Open Government initiatives on these trends will be discussed.

Bio:

Ron started his career in the Aerospace and Petroleum industries, designing and writing numerical programs for engineering graphics and robotics applications. As relational databases began to appear, he was one of the early designers for their use in large-scale financial and configuration management systems. After several years, he moved into research on database parallelism, integrity constraints, and transitive closure problems. He holds several patents in identification and naming reconciliation heuristics and analytics.

He is currently a Distinguished Engineer leading the Smarter Cities product suite and is responsible for moving into new areas such as stadiums and airports operations, and the growing ecosystem of domains, including water, transportation, energy, public safety, and city planning optimization. He directs the effort to provide more advanced analytics and the wealth of IBM Research technologies employed in cities around the world into deliverable software products that help create a Smarter Planet.