Keeping your head in the clouds is a **good** idea

We all know the latest numbers: Gartner, Inc. forecasts that 6.4 billion connected things will be in use worldwide in 2016, up 30 percent from last year, and will reach 20.8 billion by 2020. We're rapidly approaching a data production of 40 zettabytes a day – more than we can every physically store, and *exabytes* and *yottabytes* are just around the corner.

For many that's a good sign, as data has been proven to equal money—IF it's ingested, integrated, and analyzed fast enough. Without real-time analytics there's no real-time insight, and without instant insight a company's actions are doomed to forever lag behind its changing business conditions.

That being said, keeping the smarts on the ground can quickly get expensive and too slow: enterprise data warehouses, Hadoop clusters, and relational databases need to store the data before it's analysed, facing growing hardware and latency-related costs with each incremental change in volume.

This material investigates how moving the smarts to the cloud through hybrid, distributed streaming analytics can affect the overall performance of IoT implementations, while answering the following:
- What's the latest definition of streaming analytics, and what are its applications in a cloud setting?
- How can hybrid architectures balance safety of mission-critical data and real-time value?
- What are the main areas most likely to experience rapid growth?
- What are some underexplored concerns regarding cloud implementations?

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IoT data equals money—IF ingested, integrated, and analyzed fast enough. But without real-time analytics there's no real-time insight, and no real-time actions. Plus, extracting intelligence on the ground through data warehouses, Hadoop, and relational databases means facing growing hardware and latency-related costs with each incremental change in volume.

This material investigates how moving the smarts to the cloud through hybrid, distributed streaming analytics can affect the overall performance of IoT implementations, while exploring:
- The latest definition of streaming analytics, and its applications in the cloud
- Hybrid architectures balancing safety of data and real-time value
- Some understudied concerns regarding cloud implementations.