KTH – Royal Institute of Technology

Analyzes real-time data streams to identify traffic patterns

Stockholm, Sweden
www.kth.se/?l=en_UK

"*Analyzing large volumes of streaming data in real time is leading to smarter, more efficient and environmentally friendly traffic in urban areas.*"

— Haris N. Koutsopoulos,
   Head of Transportation and Logistics,
   Royal Institute of Technology,
   Stockholm, Sweden

The Royal Institute of Technology (abbreviated KTH) is a university in Stockholm, Sweden. KTH was founded in 1827 as Sweden's first polytechnic and is with Aalto University School of Science and Technology in Espoo, depending on definition, Scandinavia's largest institution of higher education in technology and one of the leading technical universities in Europe.
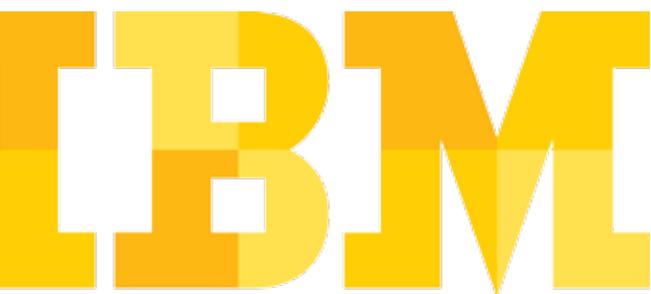
The Opportunity

Researchers at KTH, Sweden's leading technical university, gather real-time traffic data from a variety of sources such as GPS from large numbers of vehicles, radar sensors on motorways, congestion charging, weather, etc. The integration and analysis of the data in order to better manage traffic is a difficult task.

What Makes It Smarter

Collected data is now flowing into IBM InfoSphere Streams software—a unique software tool that analyzes large volumes of streaming, real-time data, both structured and unstructured. The data is then used to help intelligently identify current conditions, and estimate how long it would take to travel from point to point in the city, offer advice on various travel alternatives, such as routes, and eventually help improve traffic in a metropolitan area.

Real Business Results

- Uses diverse data, including GPS locations, weather conditions, speeds and flows from sensors on motorways, incidents and roadworks
- Enters data into the InfoSphere Streams software, which can handle all types of data, both structured and unstructured
- Handles, in real time, the large traffic and traffic-related data streams to enable researchers to quickly analyze current traffic conditions and develop historical databases for monitoring and more efficient management of the system

Solution Components

- IBM® InfoSphere™ Streams
- IBM BladeCenter® HS22
- IBM BladeCenter H Chassis
- IBM System Storage® DS3400
- Red Hat Linux®

For more information

Please contact your IBM sales representative or IBM Business Partner. Visit us at: **ibm.com**/education

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