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ANSA Phase III

TRENDS Overview

Billy Gibson

Abstract

The TRENDS is an ESPRIT funded project, which aims to bring the world of open distributed processing to traffic information systems.

It comprises a seven member consortium, namely: APM, The Swedish National Roads Administration, Golden River Transport, University College London, The University of Valencia, and The University of Western England.

These slides were prepared for the March 1996 MC/TC meeting. They provide a fifteen minute overview of the TRENDS project.

The key features of the project are the extensive use of CORBA interfaces for services, adoption of web browers as general application front-ends, a real time distributed database, and the exploitation of internet.

APM.1730.01 **Approved** 23rd April 1996

Project Management (confidential to ANSA consortium for 2 years)

Distribution:
Supersedes:
Superseded by:

TRAFFIC ENGINEERING NETWORK DATA SERVICE

(TRENDS)

ESPRIT: 20791

Billy Gibson

TRENDS

- **Open Distributed Processing *applied to* Traffic Information Systems.**
- **Successor to DTI funded MOTOS project.**
- **Consortium Members:**

  APM (Project Manager)

  ARENA (Swedish National Road Administration)

  Data Sciences

  Golden River Transport

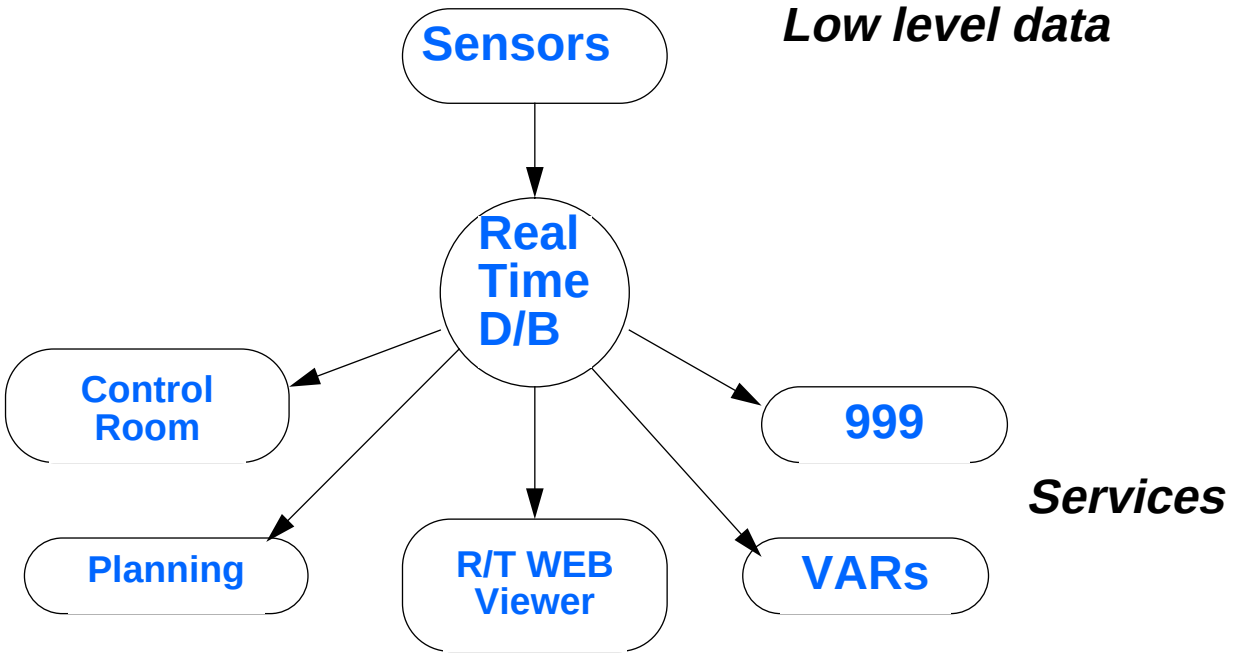
  University College London

  University of Valencia

  University of Western England

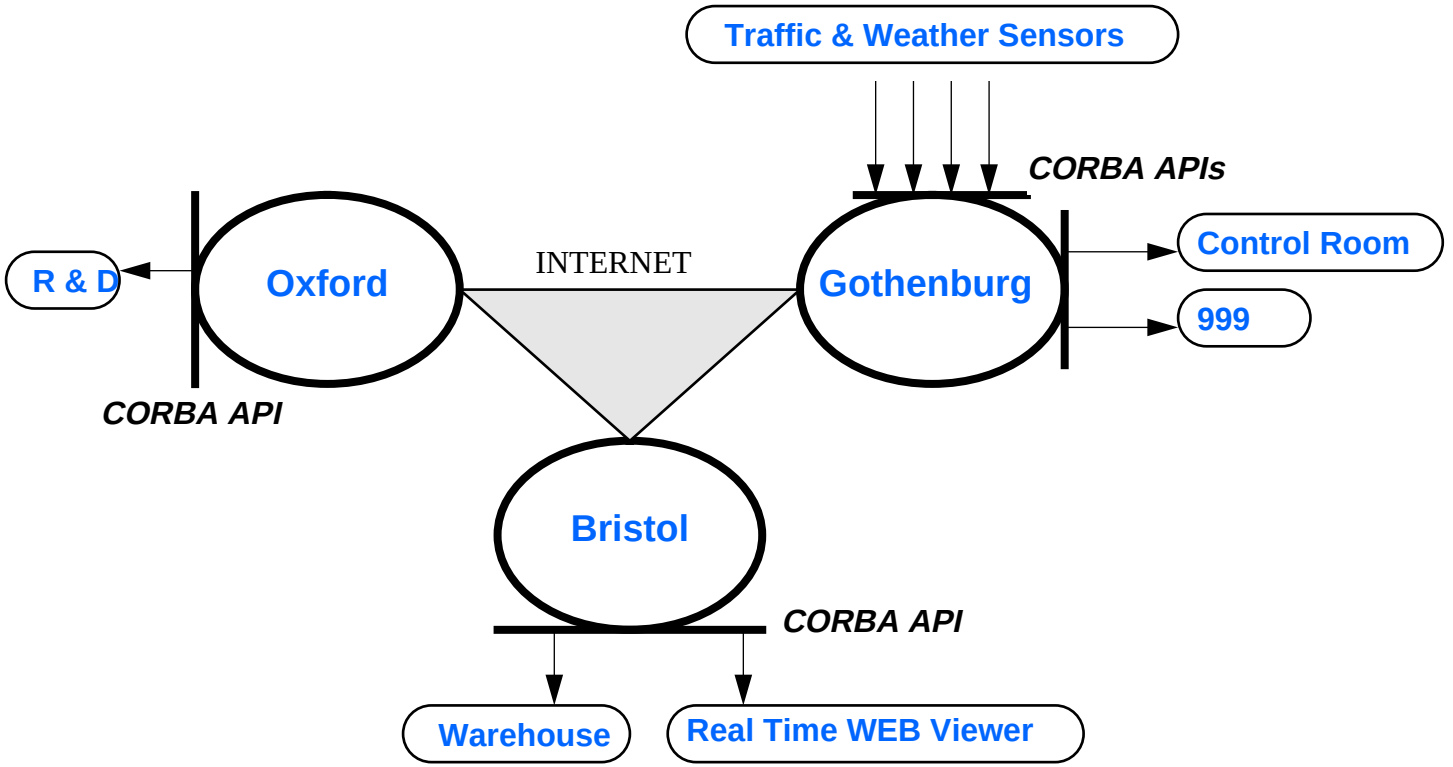
TRENDS

Data Flow View



TRENDS

Object View



TRENDS

Services

- **Full user requirements completed Q3 1996**
- **Real Time Web viewer seen as one of the crucial services**
  - **Standard web viewer used to view changing traffic conditions**
  - **APM's JADE library used to communicate with the CORBA service**
  - **Updates delivered in an *efficient* and *scalable* method**
  - **First "real time" traffic monitoring system on the web?**
- **Value added re-sellers**
  - **Via premium rate numbers**
  - **Optimum route finders**

TRENDS

Open Distributed Processing

- **CORBA**
  - Encapsulate legacy systems
  - Easy expansion of inputs (sensors) and outputs (services)
  - Unified system
- **Distributed Database and Processing**
  - Selective replication of tables
  - Processing performed at most suitable location
- **Internet**
  - Information available to the WORLD