

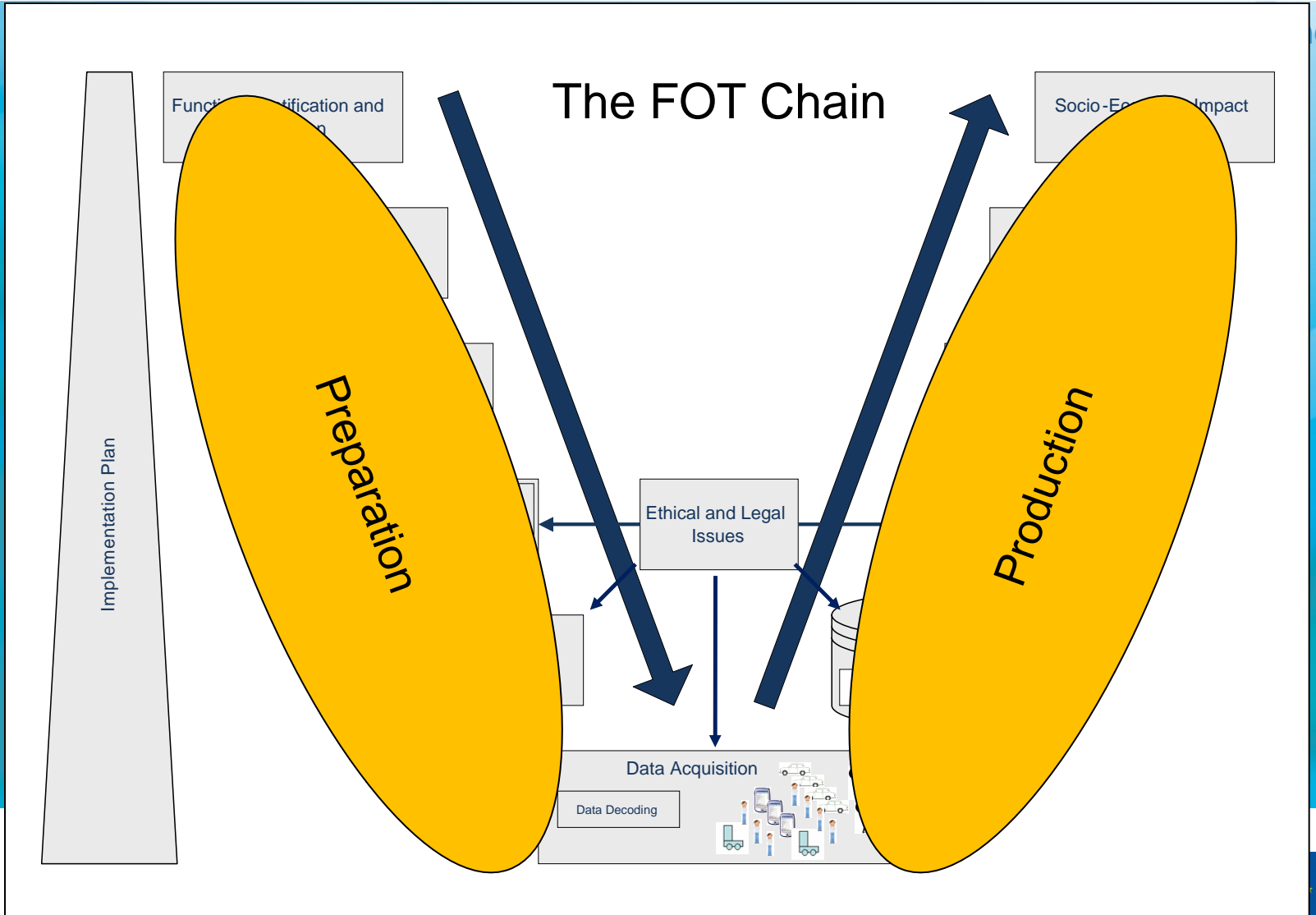
Data Acquisition and Data Management

Oliver Carsten

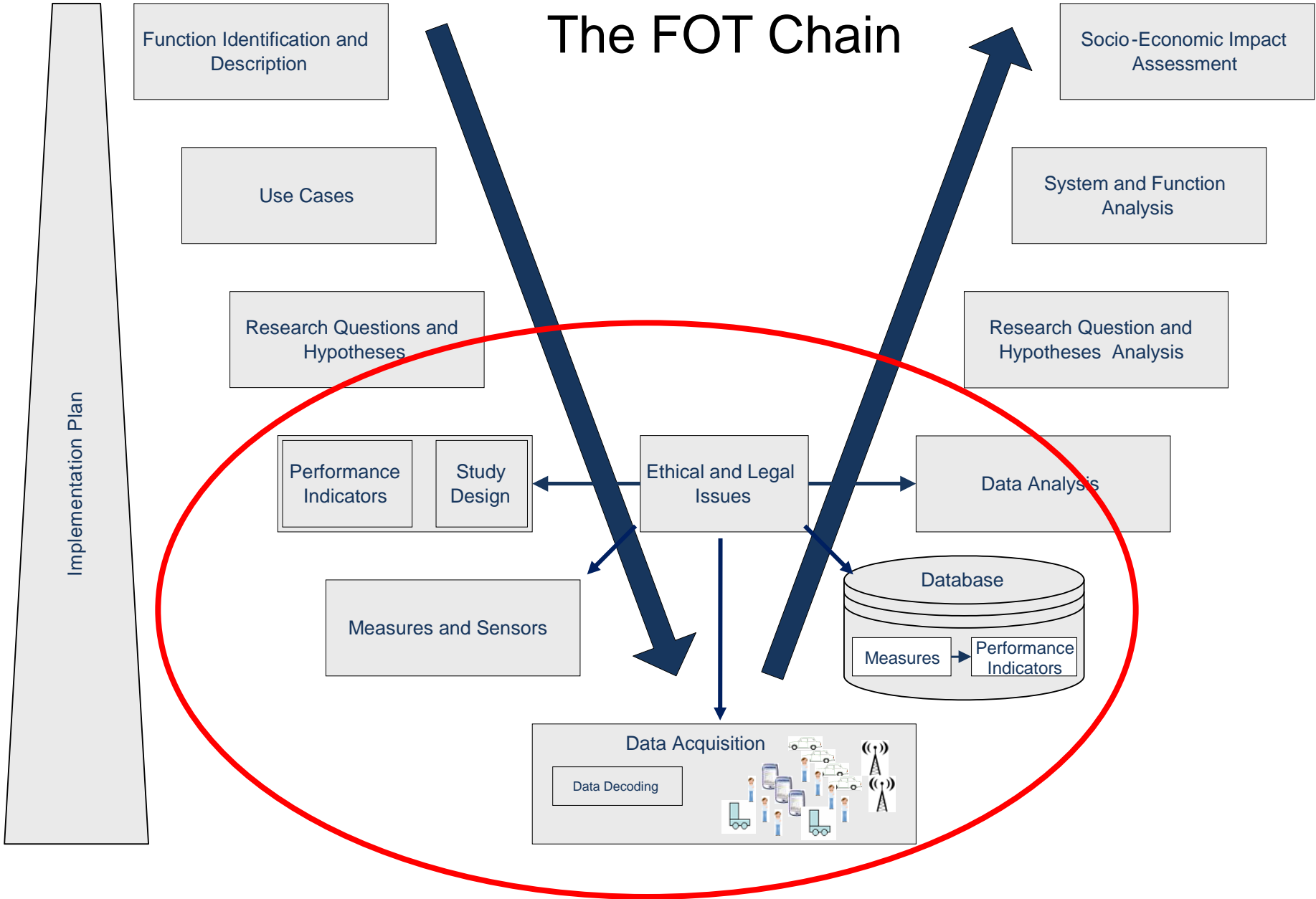
ITS

University of Leeds

The FESTA "V"



The FOT Chain



Implementation Plan

Important points

- Data should be stored in a database
 - SQL is the standard
- Worry about privacy and data protection
- Questionnaires are “sensors” in the FESTA definition
- Make sure your Data Acquisition System (DAS) is working
 - We used an SMS message at each ignition off
- Take extreme precautions against data loss

DAS – The top end



- Transecurity DAS, developed for U.S. SHRP2 research programme
- Price around €9000



What do you get for €9000?

- 125 Gb solid state hard drive
- “Head unit” behind the rearview mirror
- 5 video cameras
- Infrared illumination of driver’s head for nighttime recording
- Passive alcohol sensor
- Forward radar giving position of up to 6 targets
- CAN data for many of the vehicles on the market

DAS – Middle range



- CTAG data-logger – price around €500
- Able to log CAN data
- Can be set up to recognise “triggers” and store event data

DAS – Low end

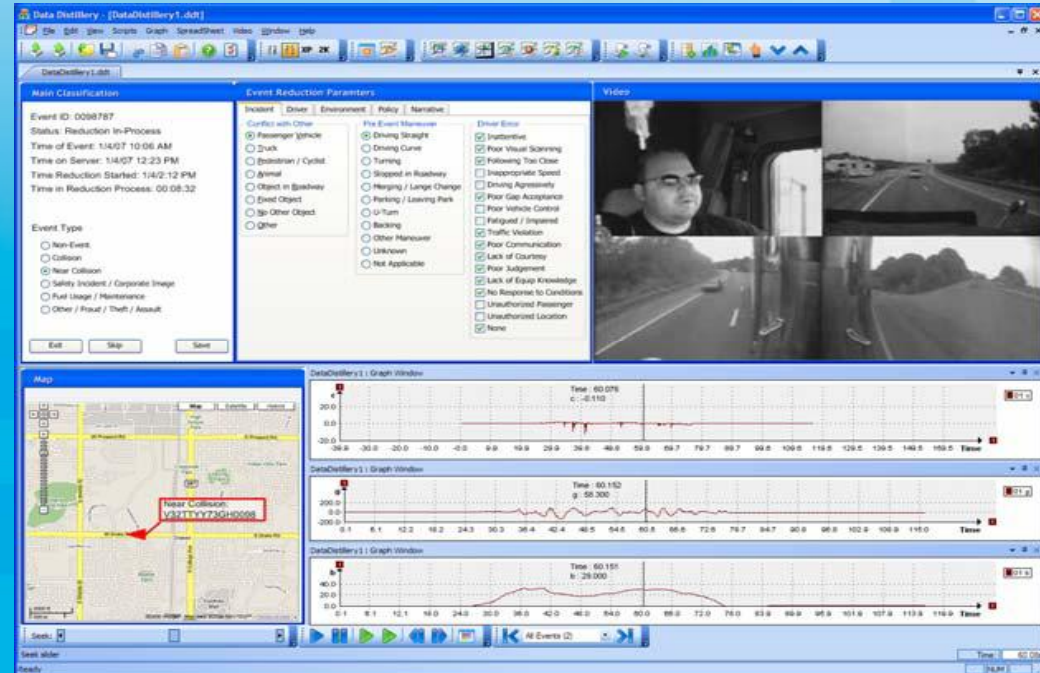


- Mobile Devices C4 – price around €100
- 32Mb of SDRAM
- We are using this in our Lancashire ISA project
- Collect speed and position at 1Hz
- Data collection over GPRS mobile phone link



Issues

- Can the data be transmitted over the air?
- Is bigger necessarily better?
 - Value for money
 - Analysis effort required



Thank you for your attention!



www.fot-net.eu

More information or want to cooperate?

www.fot-net.eu