

# Detector Control System

ATLAS DCS standard readout/control

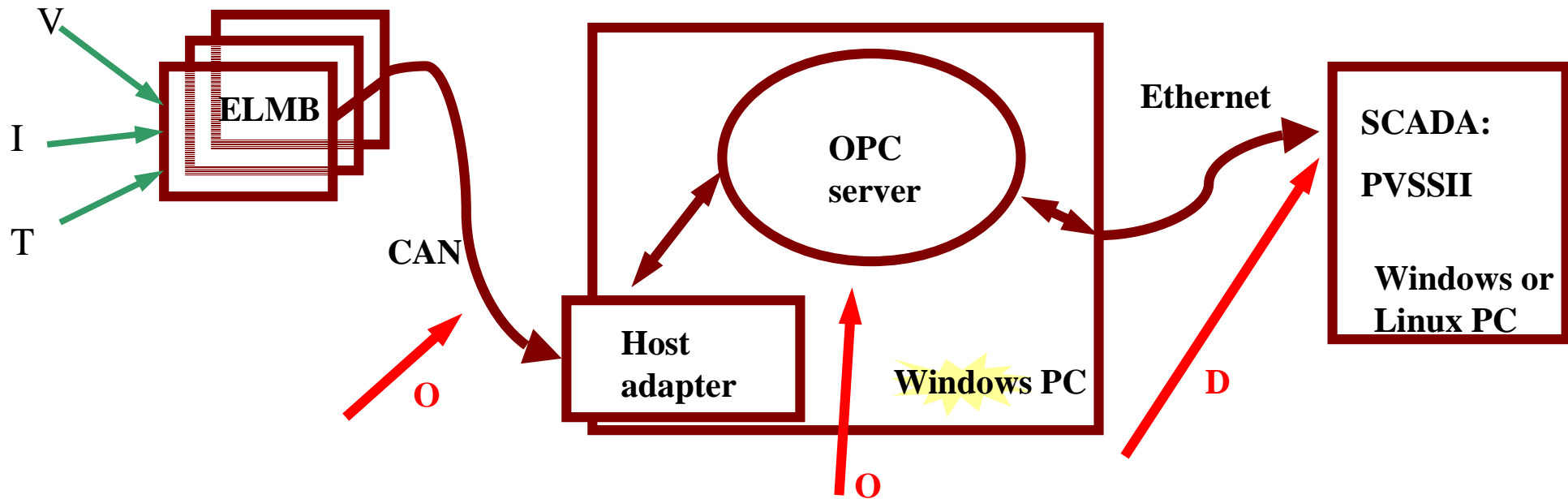
DCS Workshop Amsterdam, Oct. 2001

(<http://www.nikhef.nl/~n48/DCS/Program.html>)

- Programme
- Highlights

!! DCS ASSO Dec. 6, 2001 !!

# DCS / standard path



Software and firmware for standard components available from ATLAS DCS group. To feed non-standard user data into the chain we need our own OPC server (O) or PVSS drivers (D)

**OPC : OLE for Process Control**

**OLE : Object Linking and Embedding (Microsoft)**

**SCADA: Supervisory Control And Data Acquisition**

**PVSS is a SCADA product by ETM AG, Austria**

# ELMB

- 2 microcontrollers (ATMEL) w. flash memory, ADC, and digital I/O
- 1 CAN controller 81C91
- Opto couplers, voltage regulators, jumpers for node ID
- Optional 64-channel high-resolution ADC
- Add-on devices controlled via SPI bus
- Firmware CANopen compliant, ISPable via CAN