



**Poseidon House
Castle Park
Cambridge CB3 0RD
United Kingdom**

TELEPHONE:
INTERNATIONAL:
FAX:
E-MAIL:

**Cambridge (01223) 515010
+44 1223 515010
+44 1223 359779
apm@ansa.co.uk**

ANSA Phase III

Technical Proposals for ANSA and Object Laboratory

Andrew Herbert

Abstract

A Presentation to the ANSA management Committee setting out the technical Proposals for ANSA Phase III as a research programme and Object Lab as a "proof of concept" programme.

APM.1516.01

Approved

11th July 1995

Project Management (confidential to ANSA consortium for 2 years)

Distribution:

Supersedes:

Superseded by:



ANSA Management Committee 12th July 1995

**Technical Proposals for
Object Lab
and
ANSA**

**Andrew Herbert
ANSA Chief Architect**



Scope

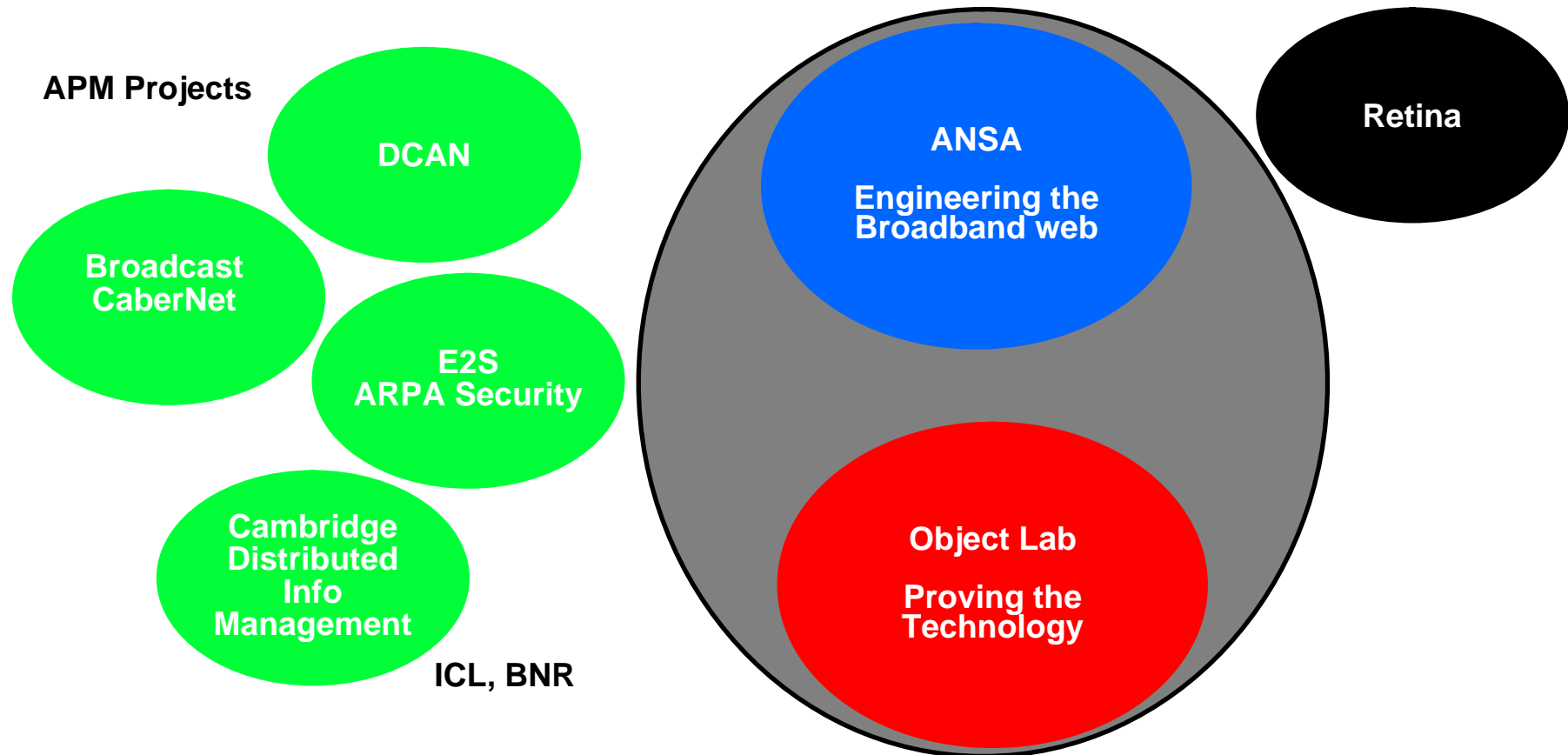
- **Object Lab**

- Prove benefits of Distributed Object technology
- Combine ANSA architecture and OMG interfaces
- Target users

- **ANSA**

- Research new technologies and application areas
- Building on ANSA strengths
- Target innovators

The Big Picture



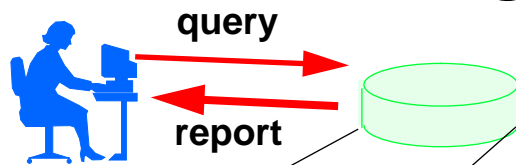


Object Lab

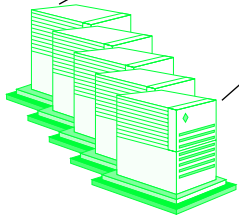
- Initial proposals
 - Choice by ANSA/OMG officers, moderated by user sign up
 - Rolling series of independent 12-18 month projects
- X-Consortium style
 - Working robust examples
 - regular releases, upgrades
 - Member's briefings, feedback sessions
 - Electronic interface to team

Object Lab Projects

CORBAmanager

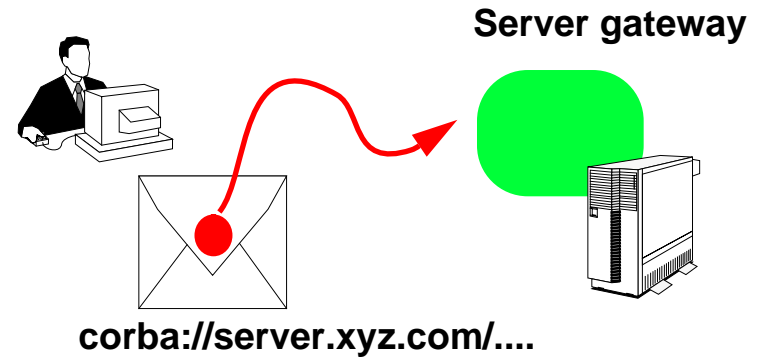


Virtual MIB

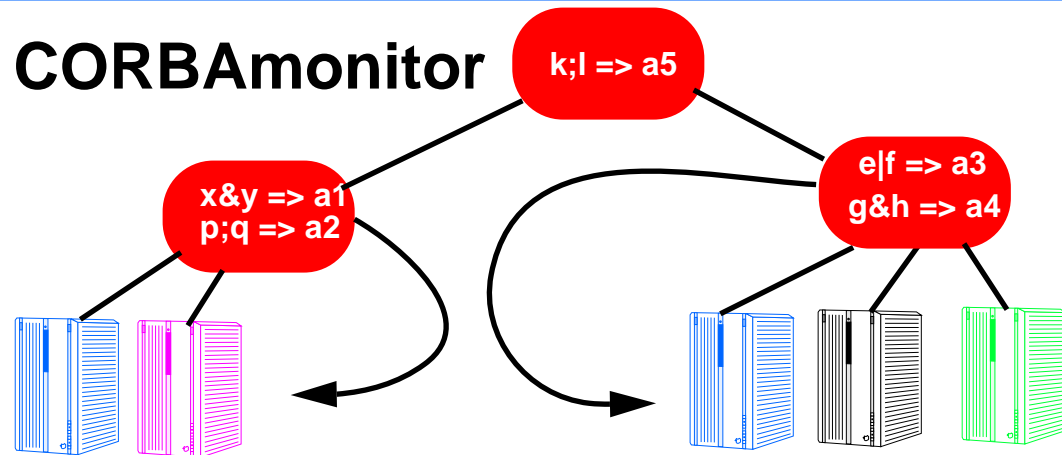


Lifecycle management
Trading, Monitoring
Extend to legacy and
PCs

CORBAmail



CORBAmonitor





CORBAmanager

- **Managing CORBA applications**
 - **Show how to use lifecycle and trading**
 - **Provide a distributed *Management Information Base***
 - **Extend to managing PC and legacy applications**
 - **2-3 (+2) person years**
- **Database = consistency**
 - **System management model integrity**
 - **Manage sets as well as elements**
 - **queries and reports**
 - **Single interface =
Simple automation =
Lower management costs**
 - **Management flexibility**
 - **add / move / replace / delete applications**

Target financial services sector



CORBAmail

- Send object pointer in mail messages
 - CORBA browser to enable user to invoke service
 - CORBAmail gateway to support mailed services
 - Integrate with MIME (hence WWW), OLE, ODBMG
 - 2(+1) person years
- Electronic direct mailing of services
 - c.f. electronic “shopping”
 - Software distribution / upgrade
 - under user’s control
 - asynchronous
 - Replace document paradigm by active content paradigm
- Target office automation sector



CORBAmonitor

- | | |
|---|--|
| <ul style="list-style-type: none">• Monitor events around a widespread system• Observers trigger actions when specific conditions met• Graphical interface for composing <i>event-condition-action rules</i>• Audit trail• Scalable, transparent• 1-2 person years | <ul style="list-style-type: none">• Alarms in telecoms, manufacturing• Fraud / integrity / exception management in business processes• Federating disjoint databases• Workflow automation |
|---|--|

- Target Telecoms sector



Others

- **CORBAledger**

- order entry and billing using distributed persistent C++ transactional objects accessible from COBOL, Powerbuilder etc

- **CORBALinks**

- hyperlink database for searching, indexing and retrieving over databases, document servers and WWW

- **CORBAphone**

- CORBA-based TAPI and shared text/image whiteboard conferencing tool

- **CORBAedi**

- CORBA-based gateway between edi domains

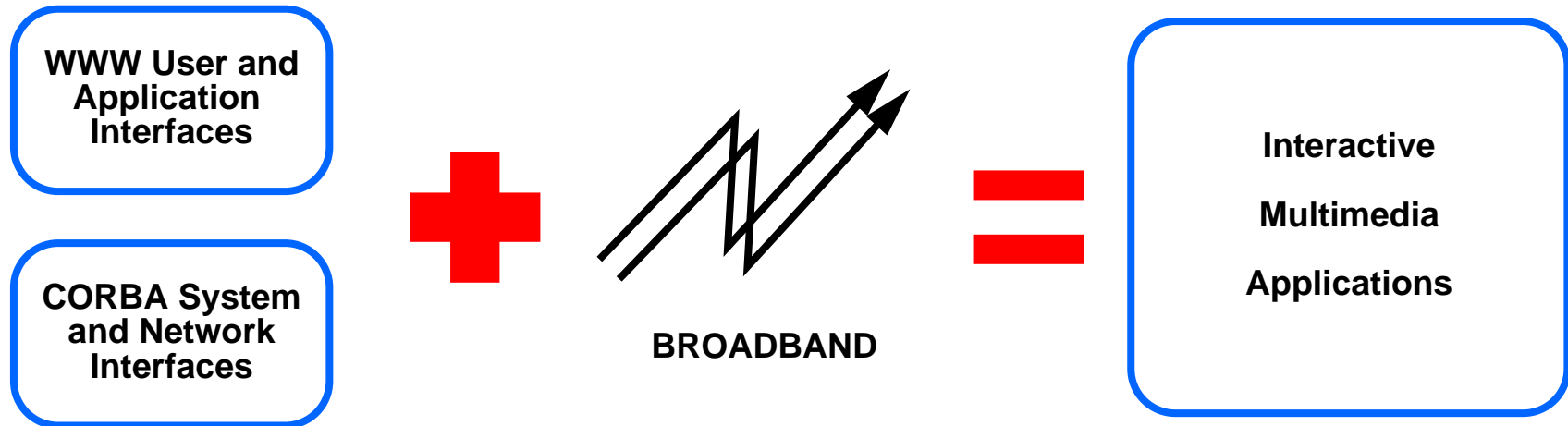


ANSA Work Programme

1995-6



1995/6 Focus in on Engineering the Broadband Web



Assets: ANSAware/RT (now)
Signals, Explicit binding (Feb 96)
WWW URCs and Agents (Dec 95)

New Nucleus (Sept)
CORBA-WWW (now)

C++ API (Sept)
IIOP-WWW (Now)

Research: Synchronous Programming
Switch and device control
Active content

QoS Management
Customized OS

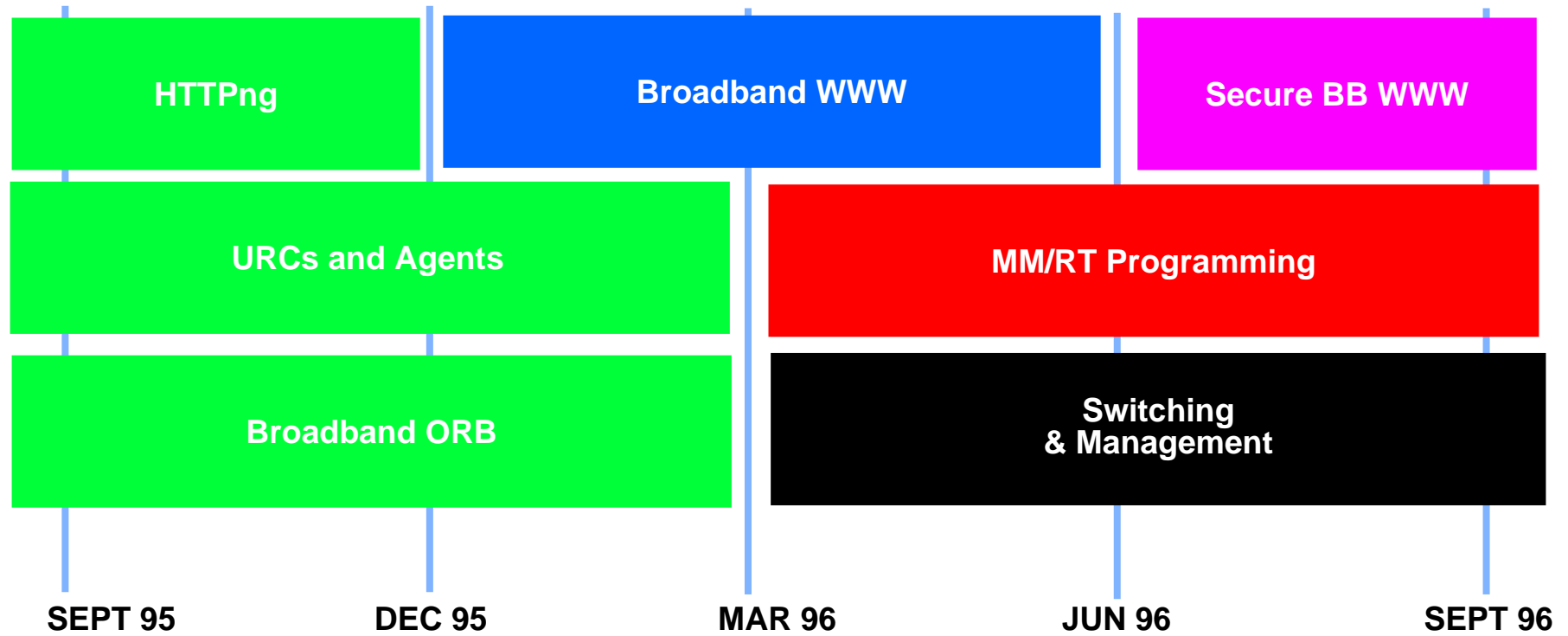


Benefits

- **New opportunities**
 - **80% of IBM PCs sold last month had multimedia**
 - **20% of world's computers on the Internet**
 - **ISDN renaissance through videoconferencing**
 - **lightweight ATM from computer industry**
- **Architectural stability over industry turbulence**
- **Carry forward systems integration benefits from ANSA I, II and III**
- **Shared technical risk**



ANSA Tasks - Outline





ANSA Process

- **Strategy set by ANSA Management Committee**
- **Tasks agreed with Technical Committee**
- **Produce robust prototypes design documents**
- **Full access to ANSA team**
- **Technology transfer through workshops, visits, secondments**