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## **ANSA Phase III**

# **1994-6 Work Programme - Briefing**

**Andrew Herbert & Mike Eyre**

### **Abstract**

This briefing introduces the ANSA Work Programme or 1994-6 set out in APM.1275.

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APM.1296.01

**Approved**  
Briefing Note

22nd September 1994

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**Distribution:**

**Supersedes:**

**Superseded by:**





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**1994-6 WORK PROGRAMME**

**MANAGEMENT COMMITTEE  
BRIEFING**

**ANDREW HERBERT - MIKE EYRE**



## Structure of this briefing

- *Challenges for ANSA & APM*
- *Shape of the work plan*
- *Vision and focus*
- *Activities*



## Challenges for ANSA

- *Sparkle*
- *Horizon*
- *Secondees*
- *Stockpile*
- *Continuity*

**= NEW PLAN**

**= NEW STRUCTURE FOR SPONSORSHIP**

**= IMPROVED PROCESS**



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## Challenge for APM after 10 years

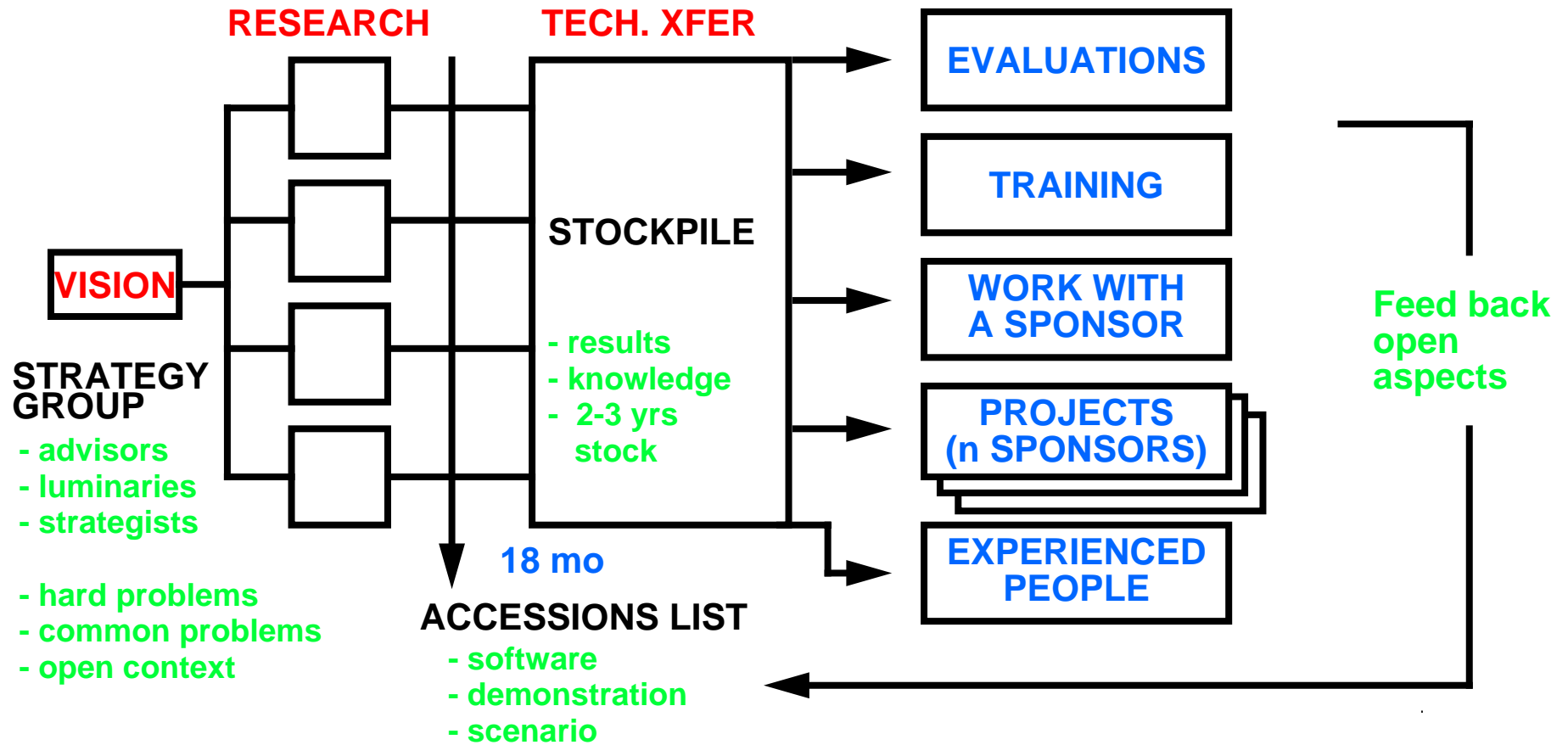
- *18 technical staff needed*
- *Staff costs rising, output level*
- *Isolation from mainstream*

**= PASS ON EXPERIENCE**

**= NEW BLOOD**

**= AGGRESSIVE TARGETS**

# New Process





## Budget Assumptions

- **1994**

- IBM lawyers
- MOD lawyers
- Telefonica signatures June

- **1995**

- NCB user "in budget" Feb 60%
- IR user "in budget" May 50%
- Fujitsu "1995 budget" May 90%
- Barclays offered mo trial June 40%
- Citibank await IBM May 40%
- EDS offered 6mo trial June 50%
- Data Sci discussions Sept 10%





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## INCOME / SECONDEES

- **1995 income £1082K**
  - [1994 income £(1150K - secondees 160K) = £990K]
- **1995 secondees: Telefonica ICL Bellcore HP**



## New Blood

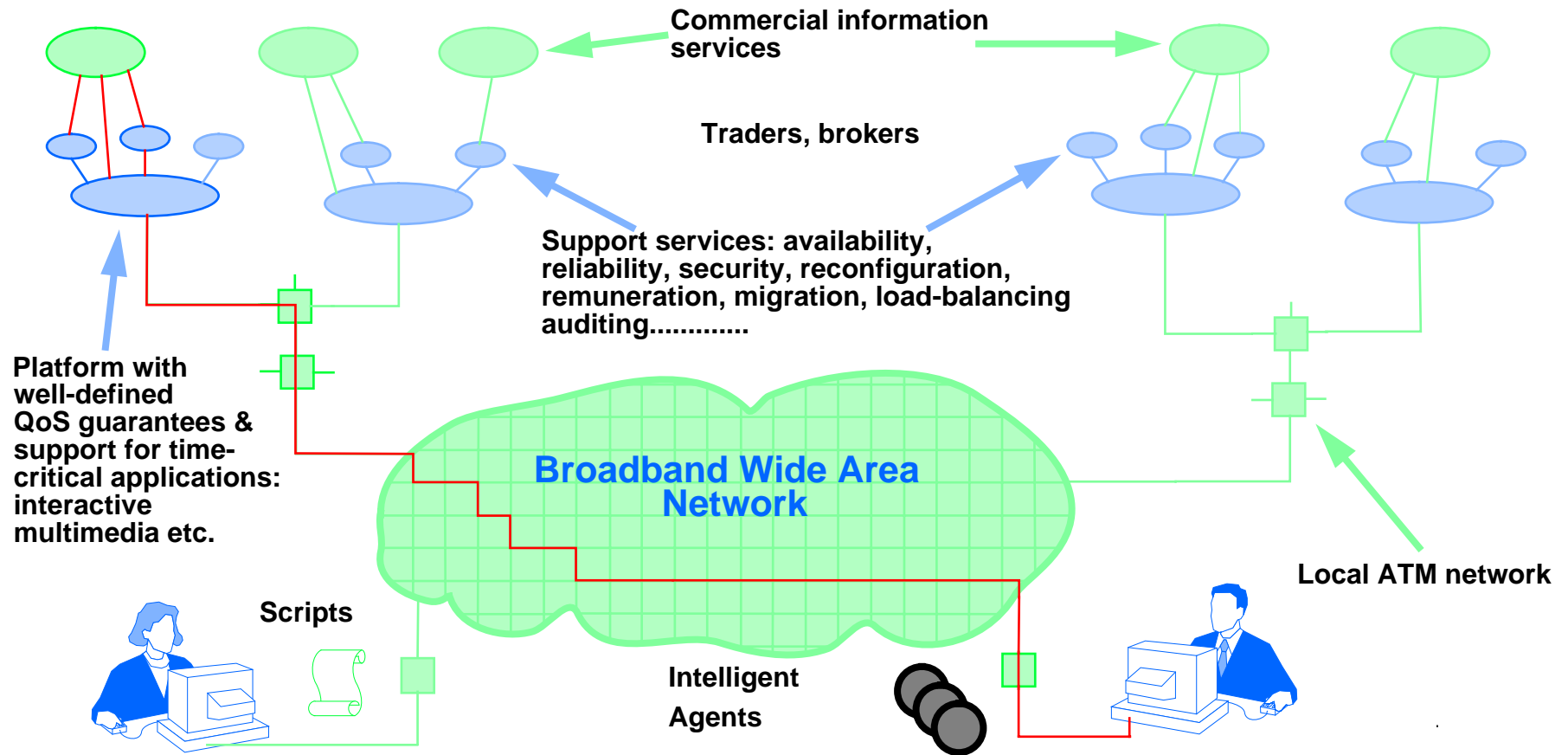
- **Advert 1**
  - 70 replies
  - 6 short listed
  - 4 offers made, one more on hold
- **Advert 2**
  - Thursday this week



## Vision

- ***World of electronic services***
- ***Needs means to PROVIDE, DELIVER and MANAGE services EFFECTIVELY***
- ***Requires system integration across***
  - open information networking (e.g. the Internet and its emergent electronic market place)
  - desktops and work groups (e.g. compound documents and workflow)
  - broadband resource managed networks (e.g. ATM)
  - interactive multi-media
  - databases
  - embedded systems (e.g. cars, healthcare)
- ***Need consensus interfaces between the network and electronic services***
  - none of OLE, FTP, SS7, DCE or CORBA is sufficient
  - managed, federated distributed object computing is the key

# Scenario



## Focus

**Public electronic  
commerce and  
information services**



**Explore,  
animate,  
scenarios**

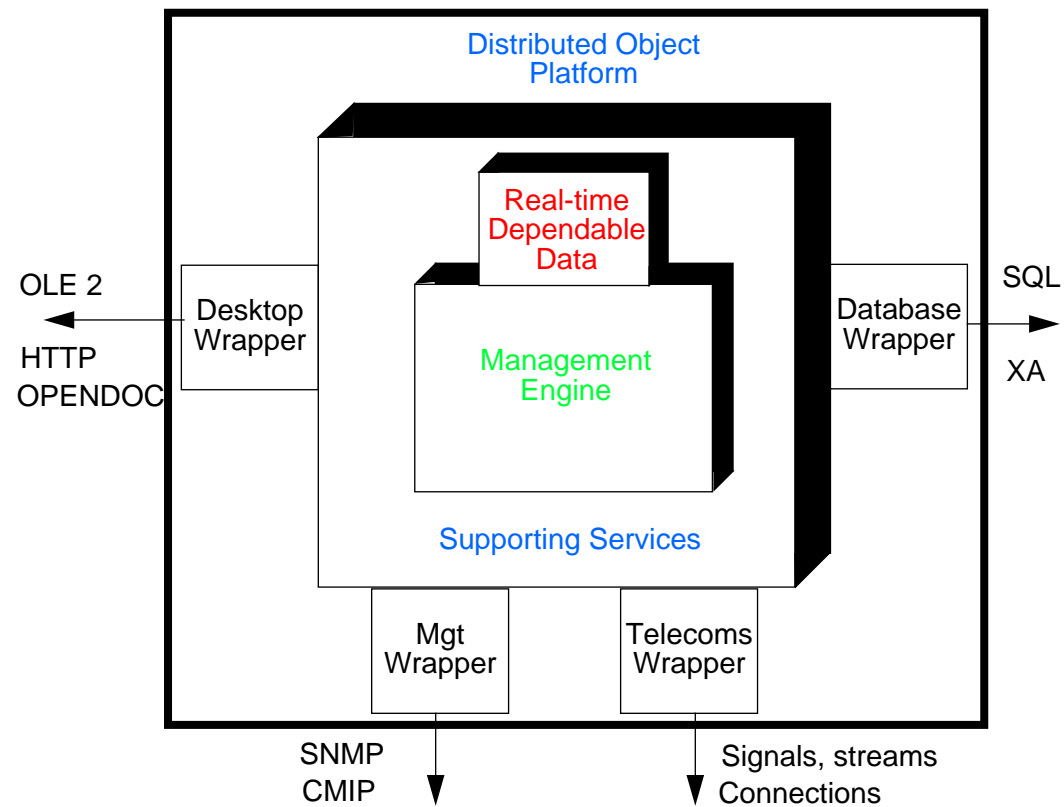
**Distributed control  
and management of  
information networks**



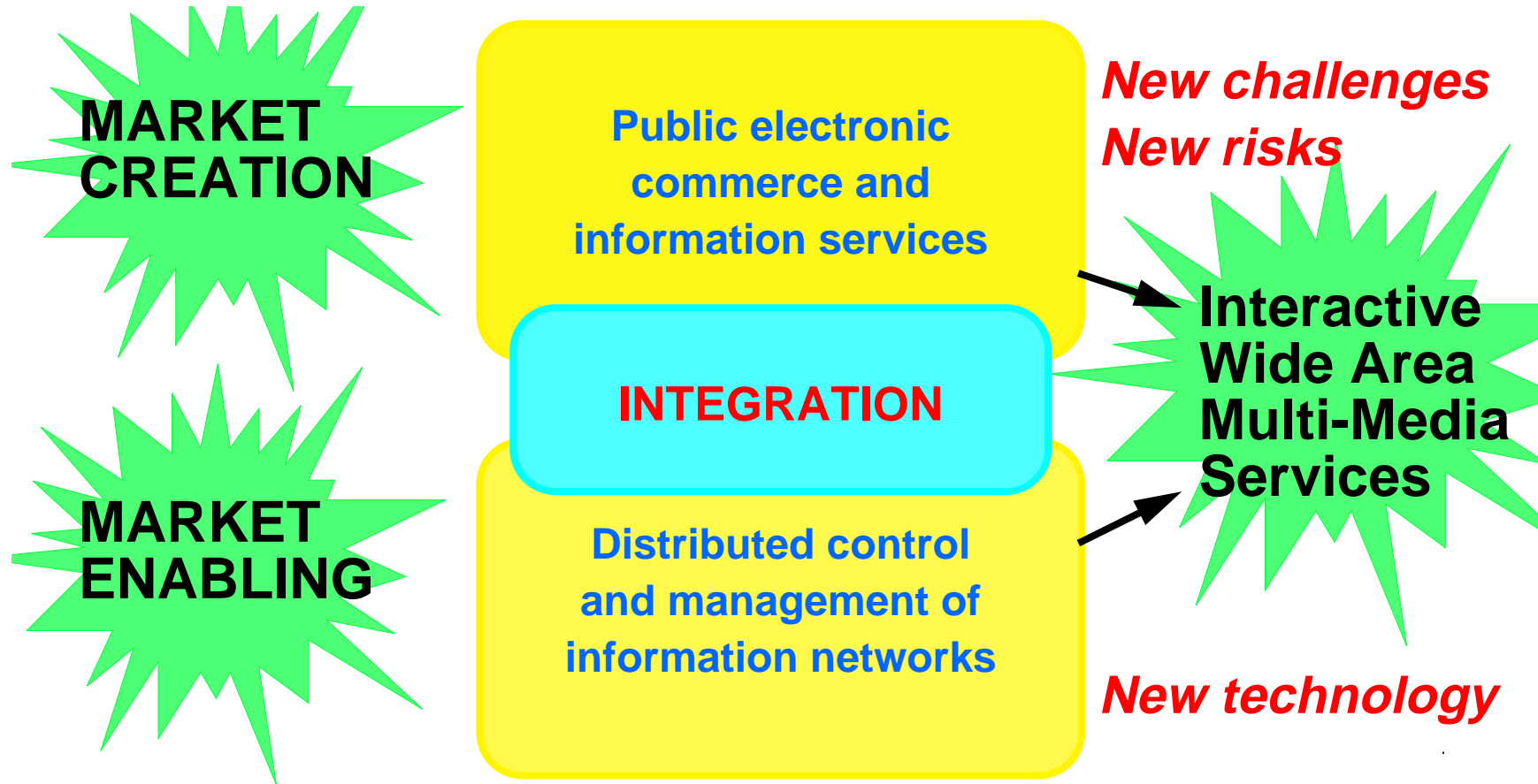
**Prototype,  
extend,  
validate**



# Management Engines for Systems Integration



## The Market





## Benefits

### ANSA results

*Scenarios for distributed commerce*

*Agents, workflows*

*management of federations*

*QoS, resource control*

### Enable

*new services; security, billing dependability; consensus and products*

*tools for service development*

*controlled interworking; application integration*

*interactive multi-media, distribution of and with embedded systems*

### Benefit

*revenue from new services; user confidence in services; avoid legislative backlash*

*faster to market; better services*

*faster response to market change*

*deliver time critical (interactive) services; enter entertainment market*





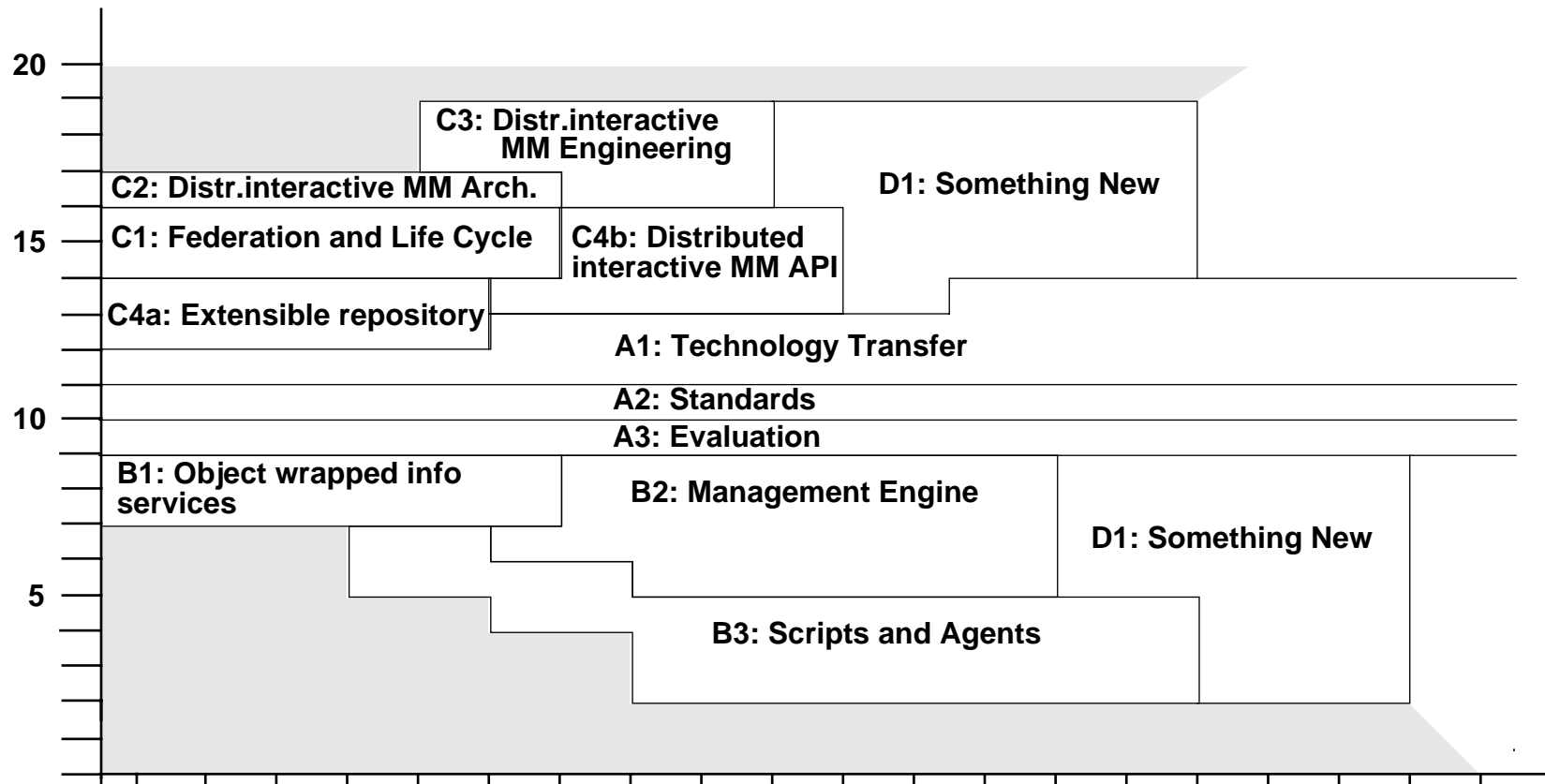
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## Work packages

- ***A series***
  - “Stock pile”- 30%
  
- ***B series***
  - Research public electronic commerce and information services - 30%
  
- ***C series***
  - Develop infrastructure for distributed control and management of information networks - 30%
  
- ***D series***
  - Something else - 10%



# Schedule





## Distributed Interactive Multimedia

- ***CORBA plus***
  - explicit cpu and time scheduling at object level (= Real-time ANSAware)
  - stream objects for framed data flows (e.g. video,voice)
  - strongly typed explicit binding for connection management
  - synchronous programming for predictability
  - declarative QoS driven tools (c.f. CORBA IDL)
- ***Implies “extensible CORBA”***
- ***Target resource managed, integrated service broadband networks***
  - assume routing, multi-casting, QoS shaping done by the network
- ***HPIP projects for lightweight ATM and mainstream ATM instantiations***



## Federated Repository

- *ORBs depend upon an interface repository and an implementation repository*
- *If two vendor's ORBs interoperate they either*
  - have a common repository and protocols
  - have a federated repository and gateways
- *Federated repository and gateway management are not understood*
- *Upgrade / replacement in service and system reconfiguration are not understood*
- *Architect integrated repository, trading and life cycle services for federated, open systems*



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## Distributed Information Systems

- *What kind of middleware do we want to write services and applications for the Information Superhighway?*
- *Use WWW as a testbed*
  - CORBA wrapper for HTTP so we can write applications
  - Federated traders for Uniform Resource Locators
  - Naming of logical SERVICES rather than SERVERS
  - Dependable SERVICES
- *Look at infrastructure / metadata needs of intelligent agents and brokers*
  - super traders
- *Look at infrastructure needs of robust scripts*
  - distributed Telescript (tm)



## STANDARDS

- **RM-ODP**
  - on the home straight
  - fast-track OMG standards - sponsor responsibility?
  - new work items (binding, transparency) - contribute, but don't lead
- **OMG**
  - try to get a good result on interoperability
  - watch for other opportunities to contribute (e.g. WWW interface, multi-media)
- **WWW**
  - create visible presence (by making prototypes available)
- **Broadband networking**
  - create opportunity for ATM Forum to address "systems issues"