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ANSA Phase III

**1994-5 Work Programme:
Management Committee Briefing**

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Abstract

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

APM.1196.00.03

Draft

6th September 1994

Request for Comments (confidential to ANSA consortium for 2 years)

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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



Challenge for APM after 10 years

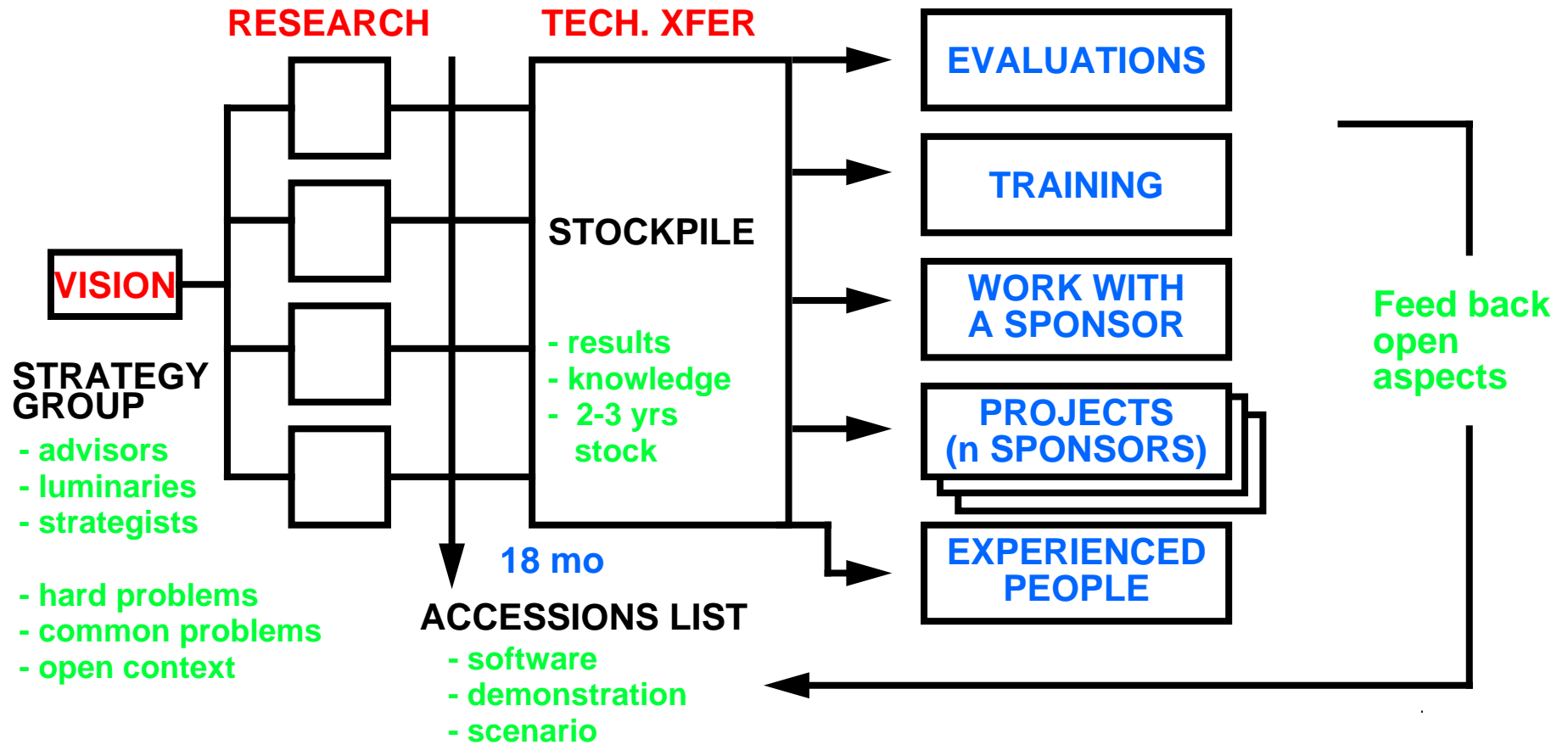
- *18 technical staff needed*
- *Staff costs rising, output level*
- *Isolation from mainstream*

= 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%



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

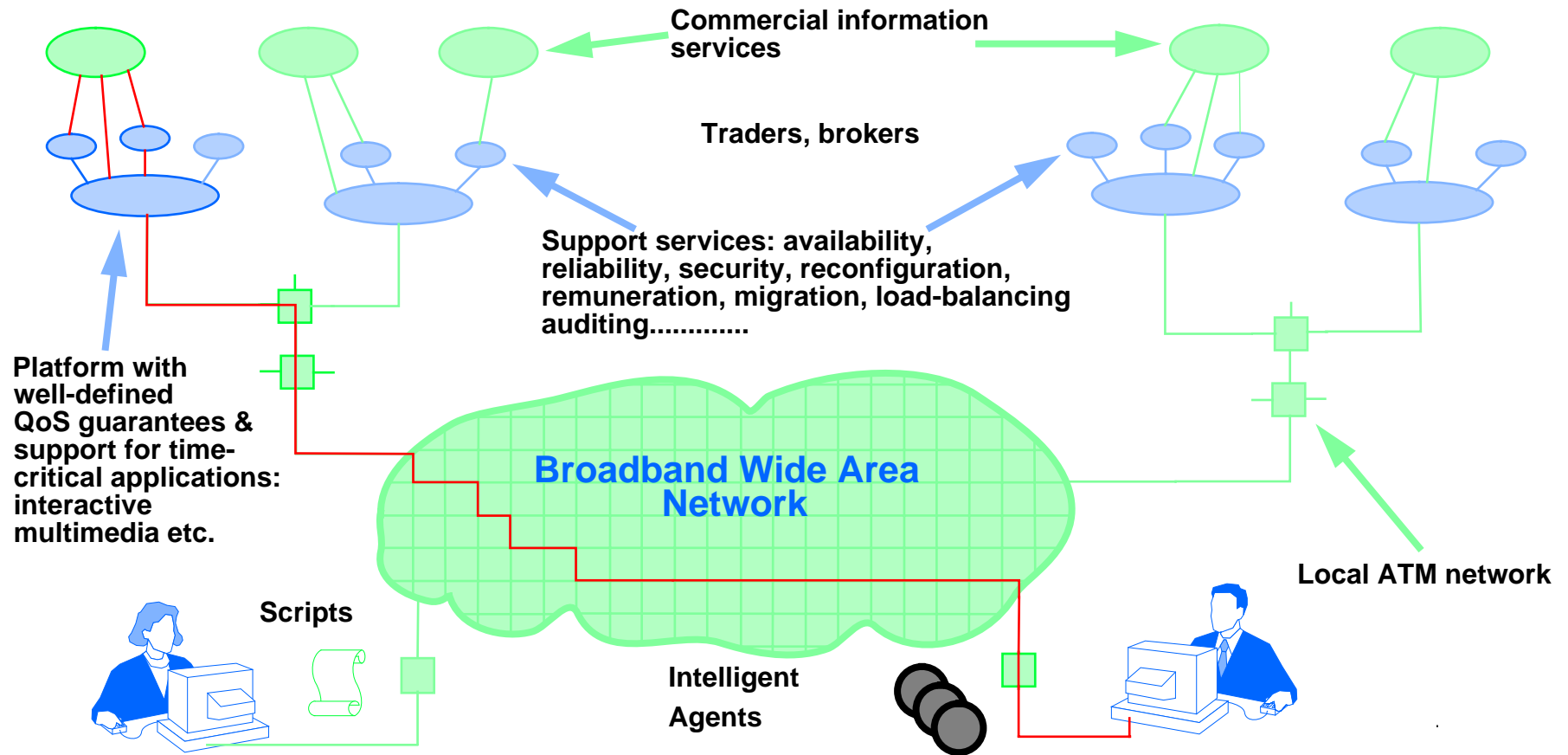
- **Advert 2**
 - Thursday this week



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**

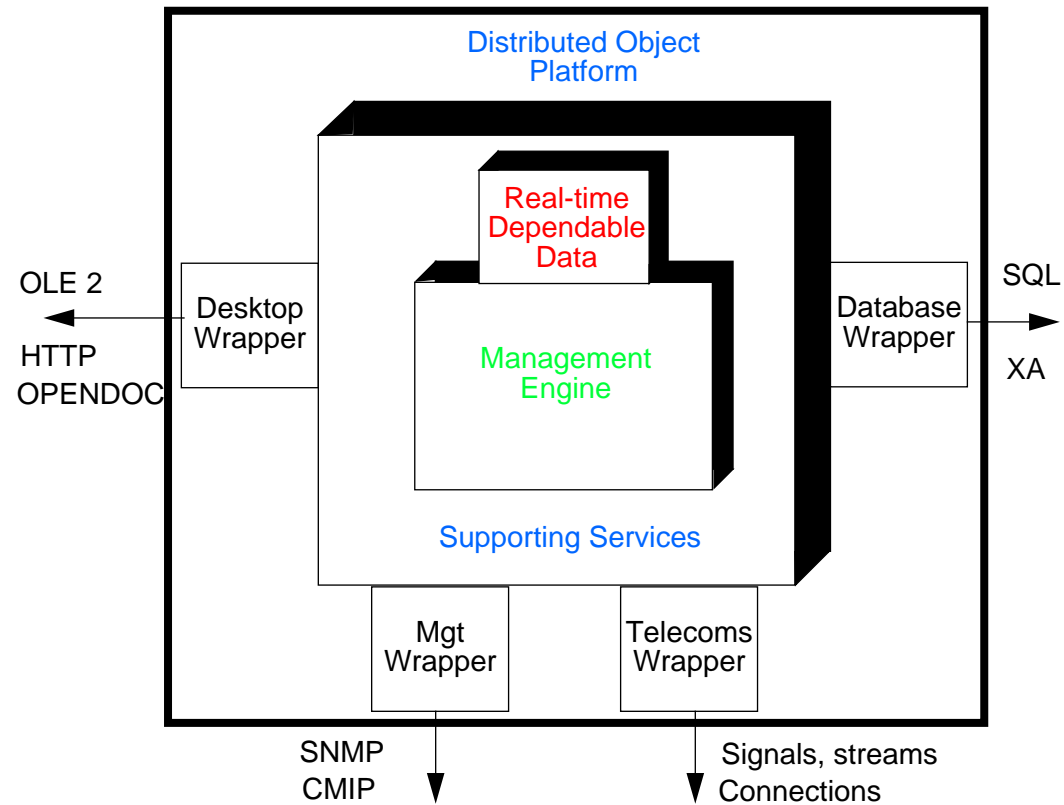
**Distributed control
and management of
information networks**



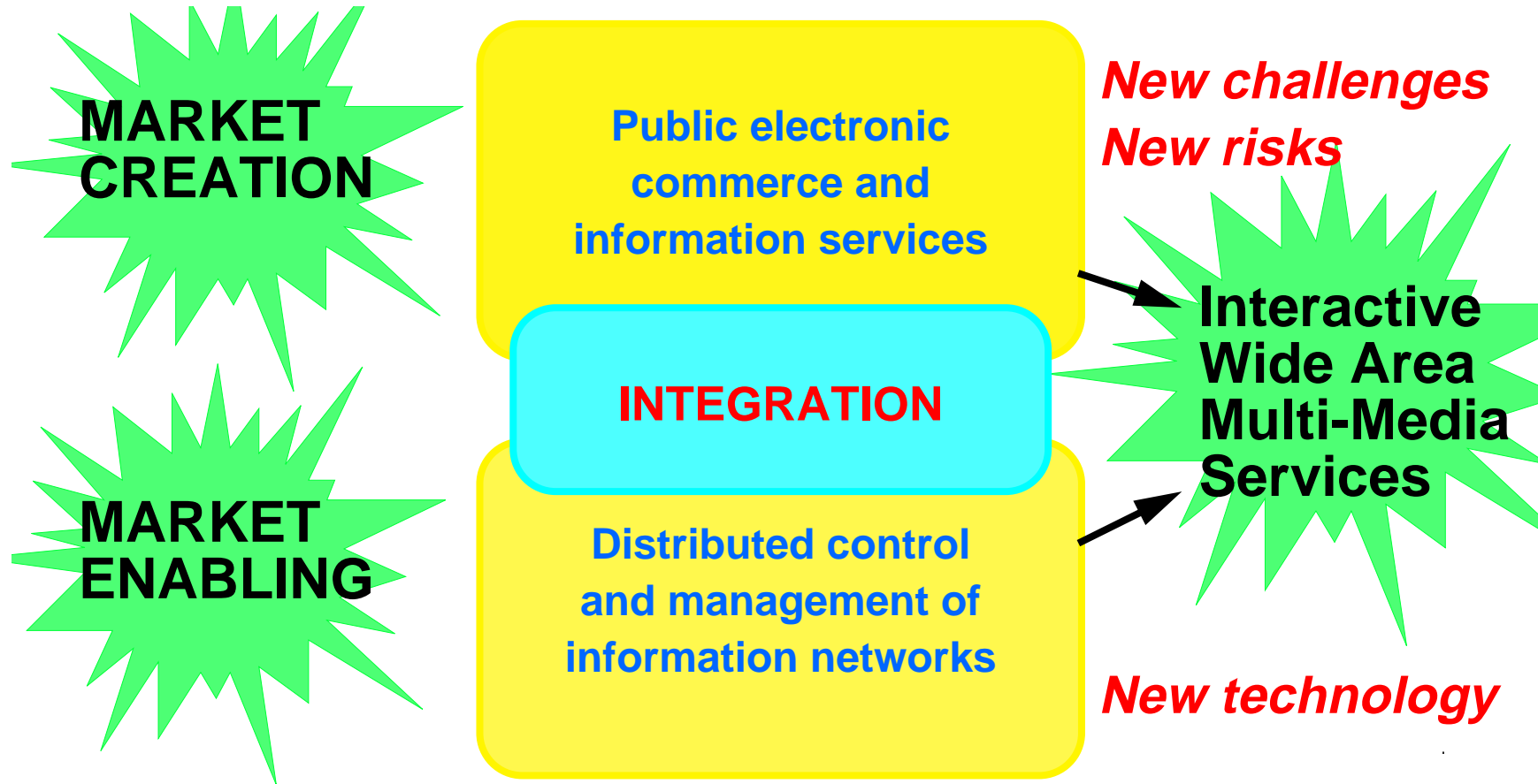
**Prototype,
extend,
validate**



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



Work packages

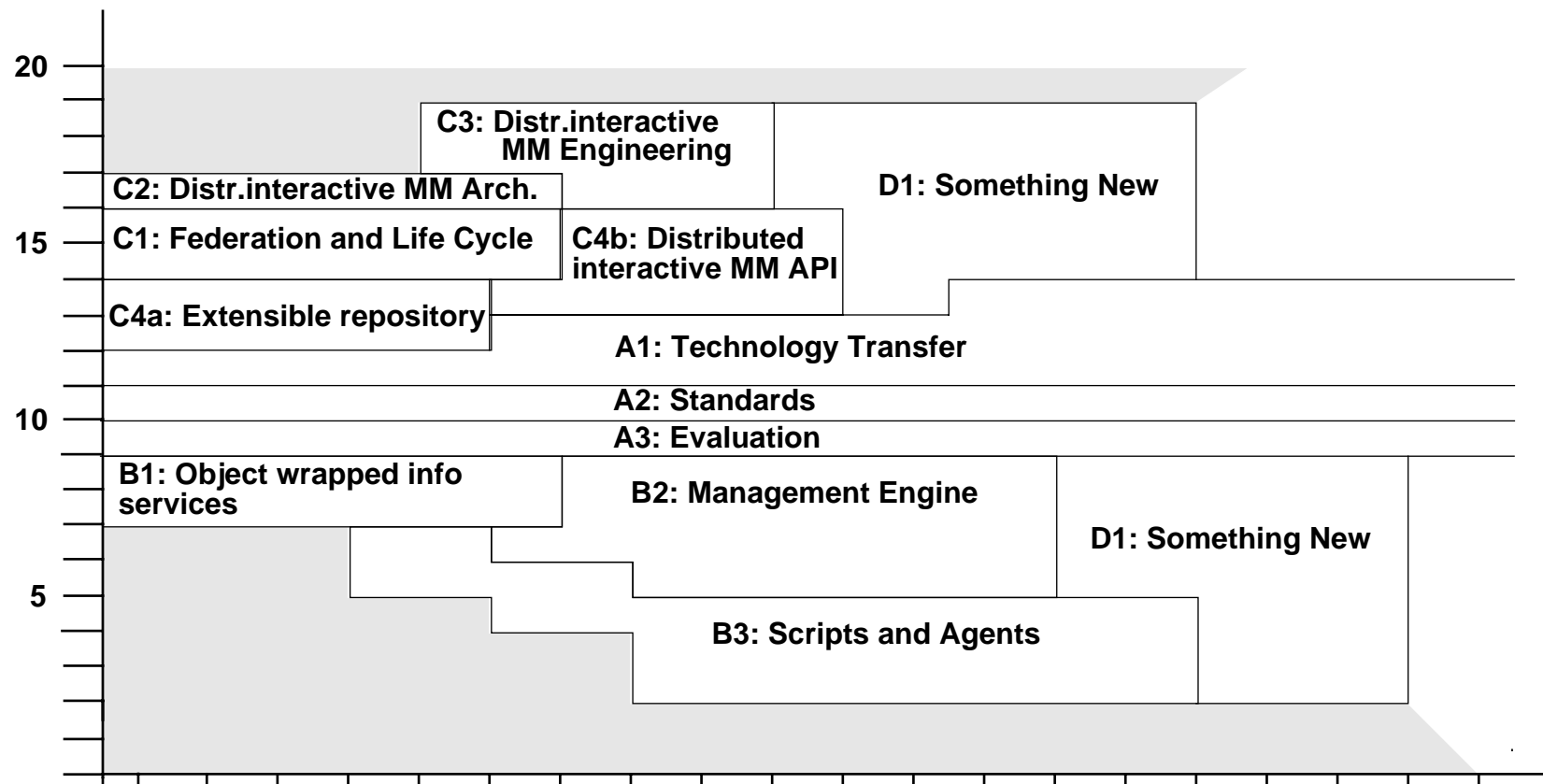
- ***A series***
 - “Stock pile”- 30%

- ***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*



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"