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ANSA Phase III

1994-6 Work Programme: Technical Committee Briefing

Andrew Herbert

Abstract

This briefing summarizes the proposed 1994-5 Work Programme strategy in terms of

Inputs

- o Sponsors
- o Software 2000
- o ANSAworks

Focus

- o public electronic commerce and information services
- o distributed control and management of information networks

Market orientation

Fit to existing work

Key objectives.

It is derived from APM.1196.00 1994-5 Work Programme: Management Committee Briefing.

APM.1253.00.03

Draft

8 July 1994

Briefing Note

Distribution:

Supersedes:

Superseded by:



1994-5 WORK PROGRAMME

TECHNICAL COMMITTEE BRIEFING

ANDREW HERBERT



Structure of this briefing

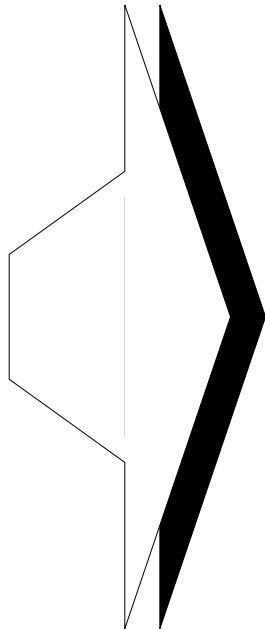
- *Overview of strategy and directions*
 - inputs
 - focus
 - benefits
 - objectives
- *Dependable electronic market place*
- *Distributed control of information and information services networking*



1993/4 - Management engines - key deliverables

- *(Dec. 93) Performance Framework*
 - scope statement for adding real-time and resource management to open distributed computing platforms
- *(Nov. 93) Object Request Broker comparison*
- *(Dec. 93) ANSAware over PThreads*
 - to exploit (real-time) / (micro) kernels and multi-processors - transferable to ORBs
- *(Jan. 94) Failure analysis model*
 - guidelines on how to analyse systems for dependability requirements
- *(end April 94) RIDE over OSF/1*
 - technology to support performance framework - transferable to ORBs
- *(end July 94) Extended Trader*
 - demonstrate database integration

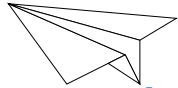
Inputs



- **Sponsor responses to Briefing from core team (APM.1178)**
- **Software 2000 Workshop**
- **ANSAworks feedback**
- **Management Committee briefing**
- **Team skills**
- **Consortium evolution**

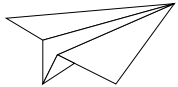


Sponsor input to the planning process



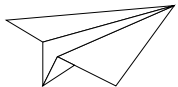
- **Briefing**

- showed opportunities to continue current themes
- mentioned opportunities in tools and environments



- **Responses from TC**

- continue existing themes for another year
- merge federation / tools into other themes
- more consulting on sponsor projects, more technology transfer
- more support and direction to TINA-C
- finish RM-ODP, focus on OMG

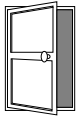


- **Perceptions from MC**

- more excitement needed
- more market orientation needed
- don't duplicate other work (e.g., electronic banking)



Software 2000 - an expert's view of the future



- **multi-media interactive networking**

- **globally accessible high speed interconnect**
- **information services (*WWW, libraries, guidebooks, timetables*)**
- **information brokers**
- **personal agents (*find, notify, index, respond,...*)**
- **integrated with embedded world (*entertainment, security, health care, transport*)**



- **electronic commerce**

- **business agents (*workflow, coordination,...*)**

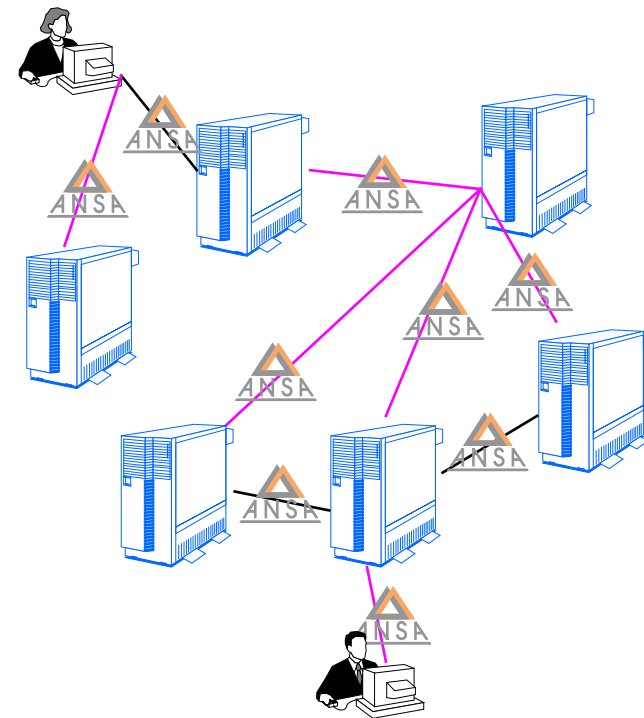


- **usability, intellectual property and revenue protection**



ANSAworks feedback

- *What are people doing with ANSA?*
 - using it as a temporary ORB
 - Information networking
 - Applications integration
 - Supervisory control
- *c.f. what are people doing with DCE?*
 - replacing proprietary TP comms stacks on mainframes



Focus: what kinds of systems / applications?

**Public electronic
commerce and
information services**



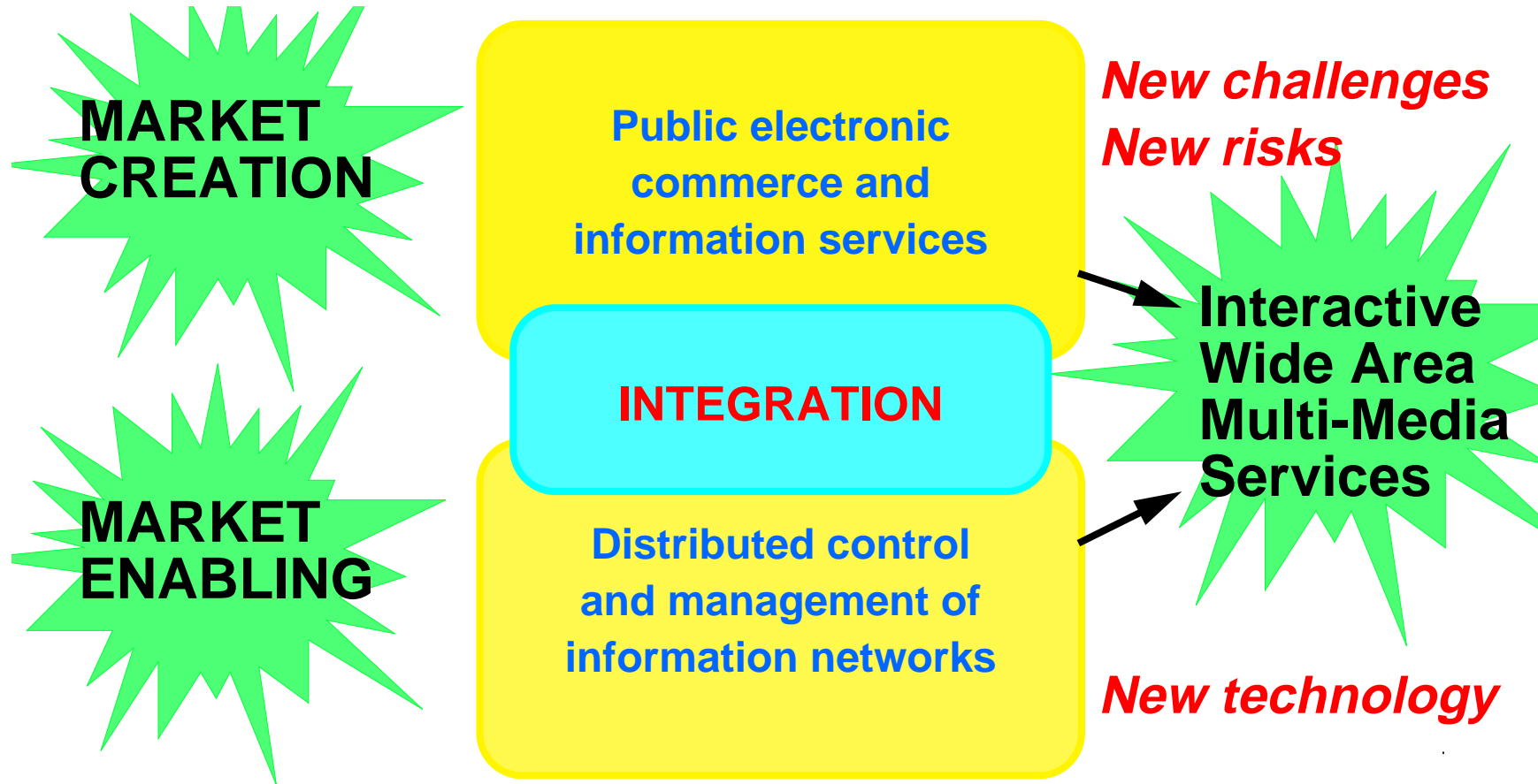
**Explore,
animate,
scenarios**

**Distributed control
and management of
information networks**



**Prototype,
extend,
validate**

Focus: market rationale





Focus: benefits to sponsors

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



Focus: build out from existing work

Dependability

Federation/
Automated
transparency

Performance

TINAC

Public electronic
commerce and
information services



**Management
Engines**

Distributed control
and management of
information networks

Consulting

Marketecture

Standards

Support



Key objectives - a flavour

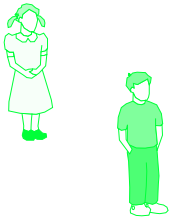
- **public electronic commerce and information services**
 - interactive programming tools for information service provision and use (e.g. distributed transactions over WWW)
 - service management components for information services (e.g. dependable cache server for World Wide Web)
 - logical resources, active resources in information services (e.g. “nearest pizza hut”, “bespoke package holiday agent”)

- **distributed control of information networks**
 - ANSAware with streams, real-time control and monitoring, quality of service management for TINA-C (e.g. to support management of VPNs over ATM networks)
 - ORB interoperability demonstration between sponsors, including repository federation aspects

Actions



- TC to agree the strategic direction and division of effort

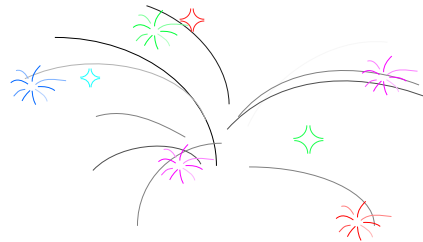


- ANSA team to map out detailed plan



- TC to recommend acceptance of detailed plan to MC

Get on and deliver!



- *define tasks that lead to working prototypes with 12 months*