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## **ANSA Phase III**

# **ANSA TC 0595: progress report slides**

**Rob van der Linden**

### **Abstract**

This document contains the slides for the progress report presentation at the ANSA Technical Committee meeting, 25-26 May 1995.

It covers the 2 month period from March 1995 to April 1995 and includes effort to date in the context of the September 1994 ANSA Phase 3 plan.

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APM.1438.01

**Approved**

29th June 1995

Project Management (confidential to ANSA consortium for 2 years)

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**Distribution:**

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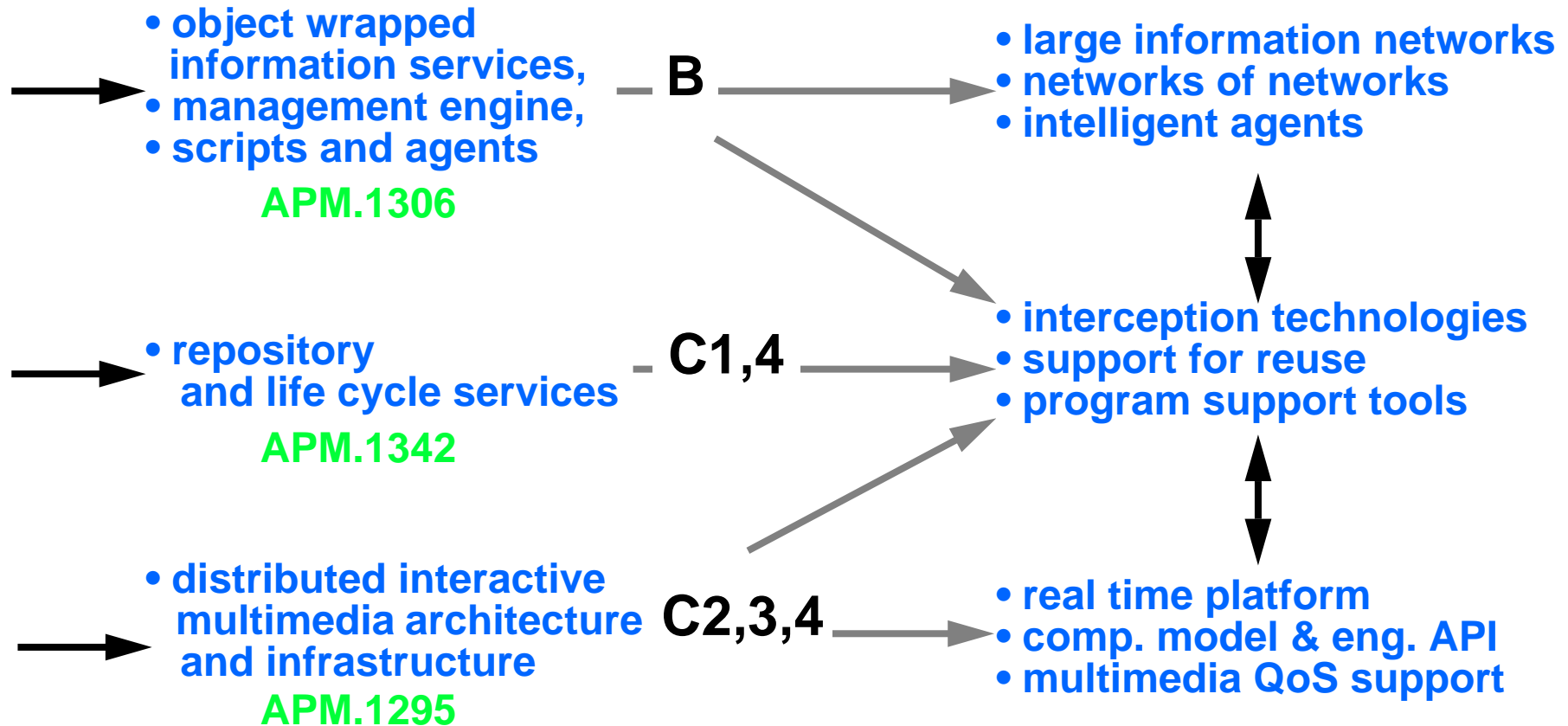
**Phase III**  
**Progress Report**  
**March 1995 - April 1995**  
**to the ANSA Technical Committee**  
**25 - 26 May 1995**

**Rob van der Linden**

- **Effort and Staffing**
- **Progress**
- **Plans**

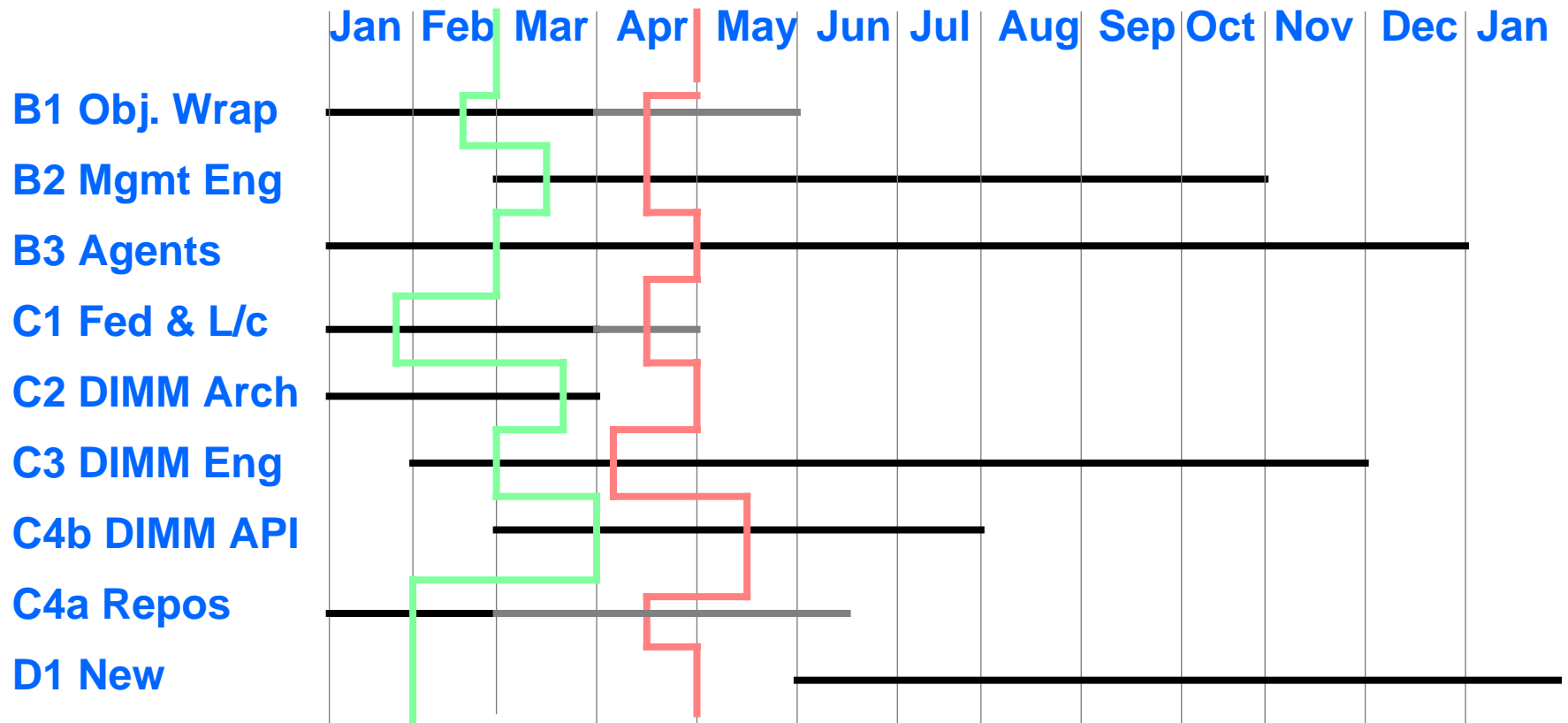


## ANSA Phase 3 technical tasks





## Overview of progress to date





## Staff Plan

staff members	Dec. 94 - Feb. 95			Mar. 95 - May 95			Jun. 95 - Aug. 95		
	Plan	Avail	Delta	Plan	Avail	Delta	Plan	Avail	Delta
APM	12	11	(1)	14.6	12	(2.6)	15.3	14	(1.3)
SEC	4	2	(2)	4	2	(2)	4	1	(3)
<b>Total</b>	<b>16</b>	<b>13</b>	<b>(3)</b>	<b>18.6</b>	<b>14</b>	<b>(4.6)</b>	<b>19.3</b>	<b>15</b>	<b>(4.3)</b>

- **New APM staff:**
  - Recruitment in progress for 2 new staff
- **Secondees:**
  - available from HP and ICL
  - Nigel Edwards to return to HP in July



## Effort by work package

Activity	Previous period (9/94 - 2/95)			This period (2/95 - 4/95)			Effort to date (9/94 - 4/95)		
	Actual	Plan	Delta	Actual	Plan	Delta	Actual	Plan	Delta
A TechXfer	2.6	7.0	(4.4)	1.5	4.0	(2.5)	4.1	11.0	(6.9)
A Stds	5.0	6.0	(1.0)	1.1	2.0	(0.9)	6.2	8.0	(1.8)
A Eval	1.9	6.0	(4.1)	0.1	2.0	(1.9)	2.1	8.0	(5.9)
B Services	16.5	19.0	(2.5)	6.1	12.0	(5.9)	22.6	31.0	(8.4)
C DIMM	11.2	11.0	0.2	4.6	12.0	(7.4)	15.8	23.0	(7.2)
C L/c & rep	16.2	22.0	(5.8)	6.8	0.0	6.8	23.0	22.0	1.0
D	0.2	0.0	0.2	0.0	0.0	0.0	0.2	0.0	0.2
SS	4.0	1.6	2.4	0.5	0.6	(0.1)	4.5	2.2	2.3
CA	5.9	6.0	(0.1)	1.7	2.0	(0.3)	7.6	8.0	(0.4)
PD	5.7	6.0	(0.3)	2.4	2.0	0.4	8.1	8.0	(0.1)
<b>Totals</b>	<b>69.2</b>	<b>84.6</b>	<b>(15.4)</b>	<b>25.0</b>	<b>36.6</b>	<b>(11.6)</b>	<b>94.2</b>	<b>121.2</b>	<b>(27.0)</b>



## Progress

### C tasks: Repository and Life cycle

- **type checker complete**
- **type inferencing implemented**
- **integrated type checker and inferencer and testing underway**
  - **to be completed by Mid June 1995**
- **TC review July & August**
- **Formally approve at September TC**





## Progress

### C tasks: Interception and federation

- **Completed Trader - MatchMaker gateway (APM.1303)**
- **Technical Report: Model of Interception completed (APM.1427)**
  - **AJH to provide material on federation of type systems and -repositories**
  - **Replace TR.043 (ORB Interoperability) with a new TR on Interception and Federation**
- **Review from the end of July 1995**
- **Formally approve at September TC**



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## Progress

### B tasks: Services, Agents and Scripts

- **CORBA stub compiler for WWW (APM.1464 and APM.1465) complete**
  - code available for you over the Summer
  - Formal approval at TC September 1995
- **Attended WWW conference and security panel (e-mail report)**
- **Started IIOP - Web implementation**
- **Changeling: Script based Web server (APM.1453)**
- **IETF work on URC and metadata systems in the web**
- **Plan to build URC resolution with Changeling**



## Progress

### B tasks: Management Engine

- **Start in May**
- **Base technology:**
  - **Interception monitoring library (under construction)**
  - **ANSAware services: trader, factory, node manager, relocater**
  - **event processing architecture: JPW (APM.1284)**
  - **CUCL event processing work (sponsored by ICL)**
  - **previous monitoring and visualisation work**
- **Need to adjust workpackage description (APM.1275) to reduce emphasis on dependability.**



## Progress C tasks: DIMMA

- **Nucleus design & implementation (UDP, TCP modules in place)**
  - end July: interworking with ANSAware
  - end September: functional nucleus for API
- **Computational API**
  - first version over ANSAware
- **Stub generator**
  - IDL to C++ client and server stubs
  - plan to integrate SUN public domain CORBA IDL front end
- **Attended OSF RI Workshop on MicroKernel based distributed systems**



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## Progress A tasks: Standards

- **OMG ORB 2 chair**
  - Cambridge OMG meetings
- **Object World talks (June)**
- **ODP:**
  - RM finalised by ISO; awaiting ITU approval in Autumn plenary
  - no further effort
  - occasional help on ODP Trader
- **APM joined W3C**
- **IETF URC and metadata proposal work**
- **X/Open and OSF APC discussions: they need an architecture**



## Progress A tasks: Evaluation

- **Update of ORB comparison (APM.1194.03)**
  - no further update planned
- **Object Model evaluation underway**
  - DSOM, OpenDoc, OLE, OMG OMA, ANSA, Dylan



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## Progress

### A tasks: Technology transfer (1)

- **Technology transfer plans are being drawn up for each sponsor**
  - **New sponsor programme**
  - **Existing sponsor maintenance programme**
  - **Agree and review plan on 6 monthly basis**
- **HP/ANSA ORB workshop**
- **ACM SIGCOMM paper (APM.1464, 1465)**
- **MatchMaker code to BT and HP (earlier to BC, CNET, Telefonica)**



## Progress

### A tasks: Technology transfer (2)

- **BT:**
  - staff exchange workshop
  - Internationalisation workshop for BT
  - Arranged BT workshop on ORB performance engineering
- **DRA: OMG briefing**
- **ICL: OMG related consultancy (security, change management)**
- **Meetings at Telefonica, Eurocontrol,**
- **Meeting with GEC Modular Avionics**





## Plans (1)

- **General:**
  - results slipping less than warranted by staff shortage
  - staff shortage being addressed by recruitment
- **A tasks:**
  - technology transfer planning underway
  - standards focused on OMG
  - evaluation focused on object models
- **C tasks (Federation and repository):**
  - interception completed bar new TR
  - AST type checking and inferencing complete by mid June 1995
  - effort directed to advancing management engine (B task)

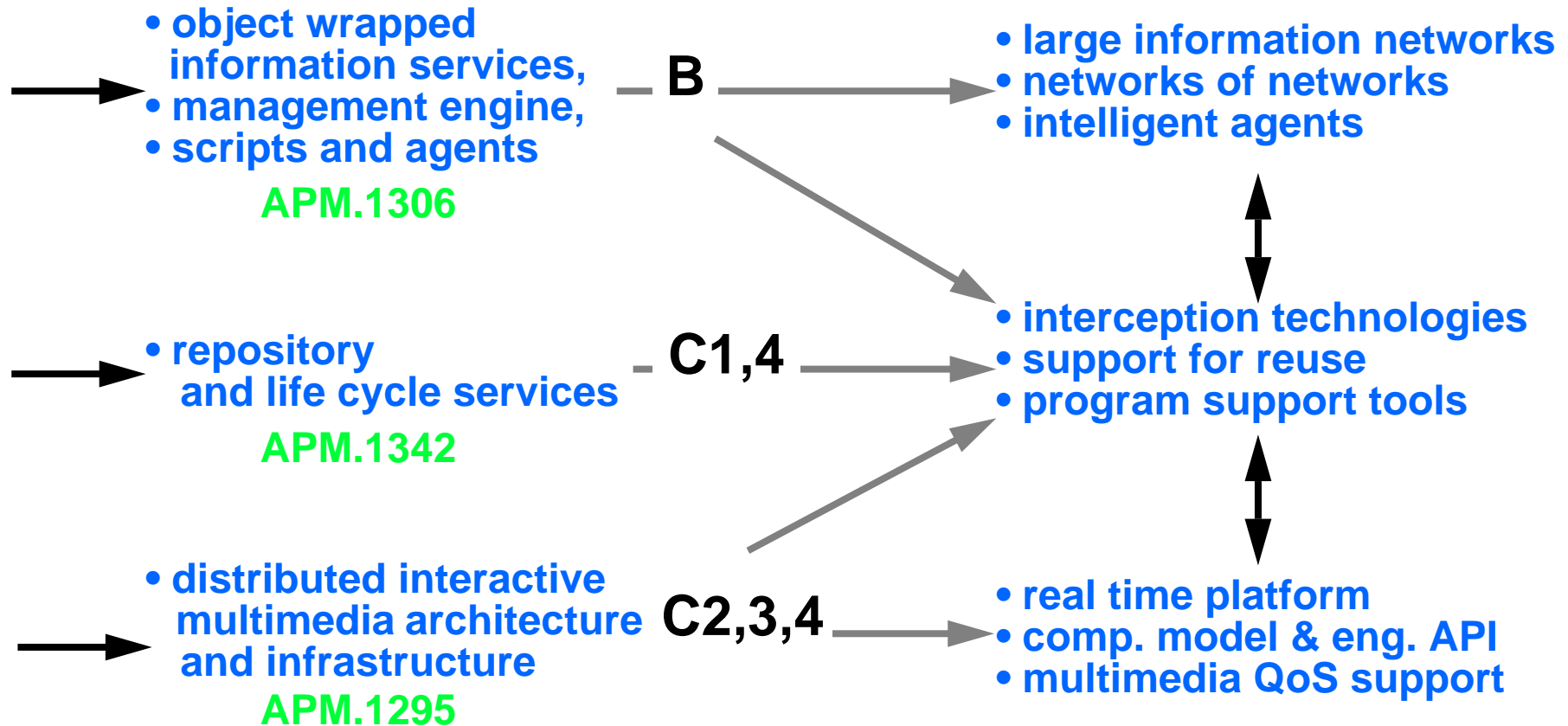


## Plans (2)

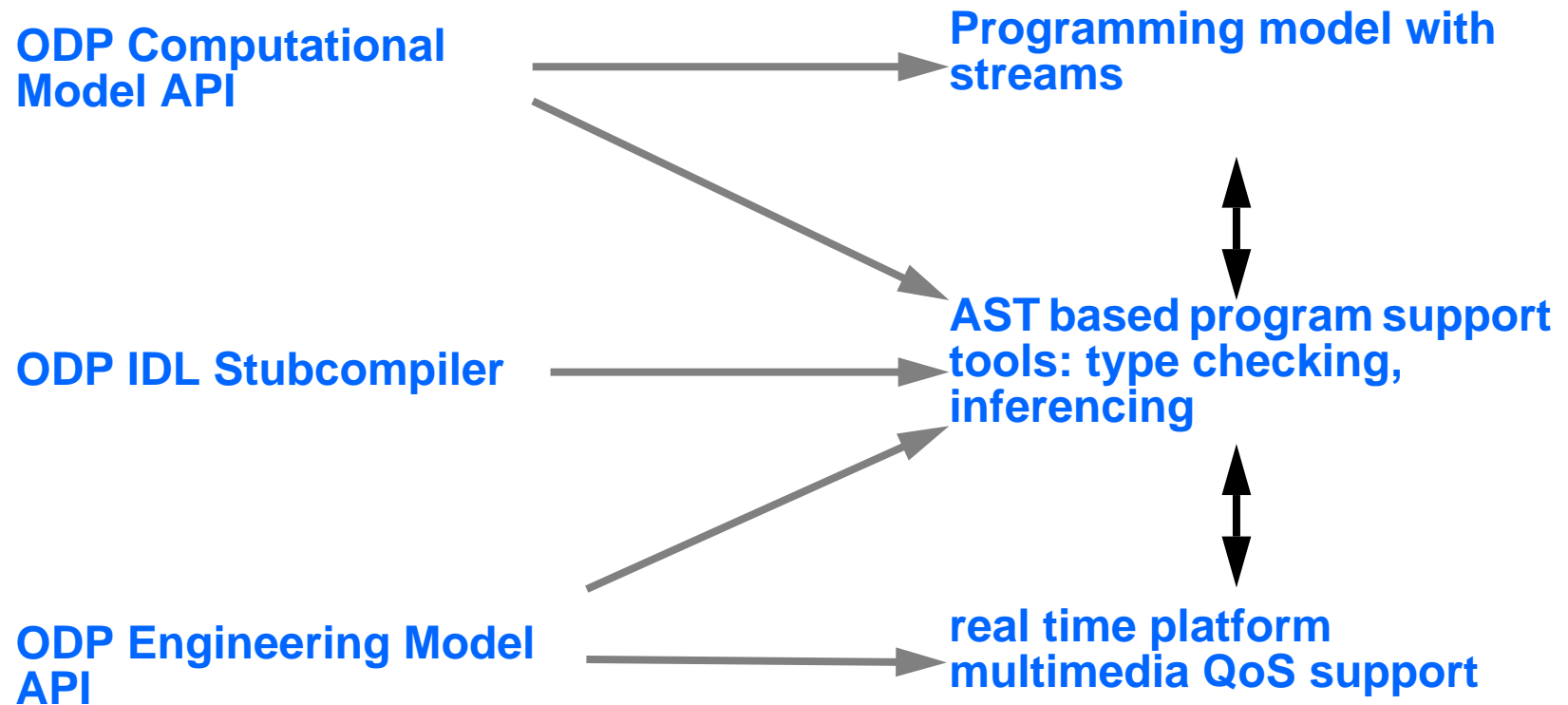
- **B tasks focused on:**
  - placing CORBA technology under the Web
  - CORBA / Web gateway and object wrapping complete
  - programming the web
- **C tasks (DIMMA):**
  - good progress: first DIMMA platform expected in Autumn
  - AST basis for type checking/inferencing tools
  - links to trading and other object services being investigated
- **Prepare to update the plans**



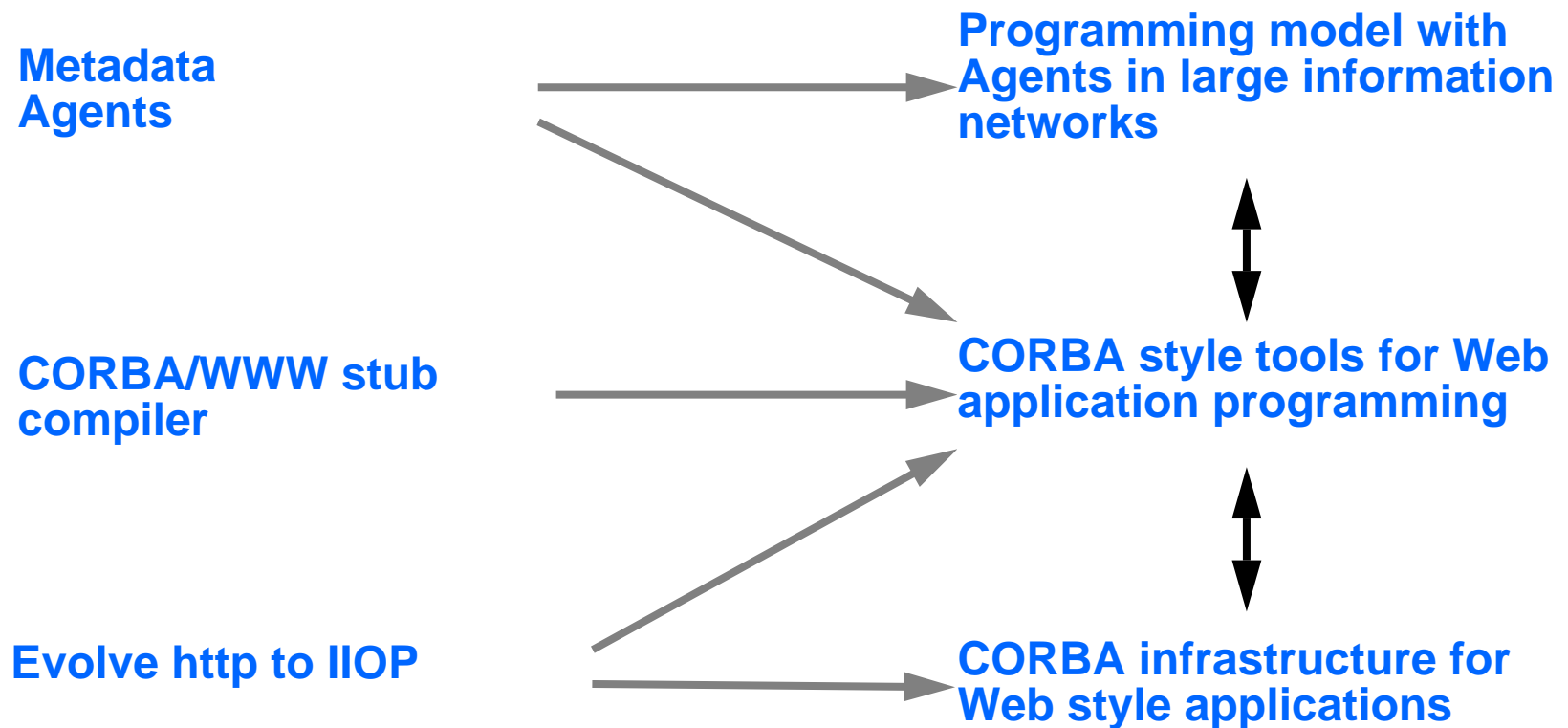
## Current ANSA Phase 3 technical tasks



## DIMMA technical tasks



## ISF technical tasks



## Future direction

