INFORMATION SOCIETIES TECHNOLOGY
(IST)
PROGRAMME

Contract for: **Shared-cost RTD**

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Shared Cost RTD CPF Form – Form A2

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2. Project objectives

MIKADO: Mobile

MIKADO: Mobile Mobile

5. Innovation

The Mikado project intends to depart radically from current distributed object-based and component-based programming models, such as those based on the standard distributed system platforms (e.g. OMG CORBA, Sun Java RMI/EJB/Jini, Microsoft COM/Universal Plug&Play/.Net), those exhibited by recent mobile agents platforms (e.g. Voyager, Aglets, Grasshopper), or those exhibited in experimental platforms and languages such as Network Objects [6], Orca [4], Kali Scheme [12], Facile [19], Obliq [9], etc. These technologies improve on the traditional client-server programming model, e.g. introducing ideas of shared objects, multi-faceted components, migrating agents, or mobile code, but

7. Contribution to Community social objectives.

With its formal approach, the project is ideally positioned to lay down the foundation of future dependable and secure distributed computing systems. If the project is successful, its programming model and virtual machine technology can serve as a basis for the construction of "correct-by-

9. Workplan

9.1 General description: Overall project structure

The project is organised around three technical work-packages (WP1-WP3) and one organisational work-package (WP4):

- WP1: Core Programming Model
- WP2: Specification and Analysis
- WP3: Vif -0.27 3 Tj 6 0 TD /F2 ,35 12i2sational

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MIKADO:

MIKADO: Mobile

Workpackage description: WP2 - Specification and Analysis

Workpackage number :

Klaim,

Distributed Computing, Software Practice and Experience. Target international conferences

MIKADO: Mobile Calculi Based on Domains

- WP2 Leader: M. Hennessy (UOS)
- WP3 Leader: R. de Nicola (DSI-UF)
- INRIA representative: I. Castellani
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10. Clustering

As mentioned in the description of WP4, the project plans to host project workshops annually that will be open to IST-funded projects and to researchers in Europe and world-wide. These workshops should provide an excellent opportunity for the review and exchange of ideas and results between the Mikado project and other projects funded by the FET Global Computing programme. The exact format and organization of these workshops will be decided in the first 6 months of the project, when

References

1.   M. Abadi, L. Cardelli.

MIKADO:

University of Sussex Key personnel

Matthew Hennessy is Professor of Computer Science at the University of Sussex. Prof.

MIKADO: Mobile

MIKADO: Mobile Calculi Based on Domains**MIKADO:**