

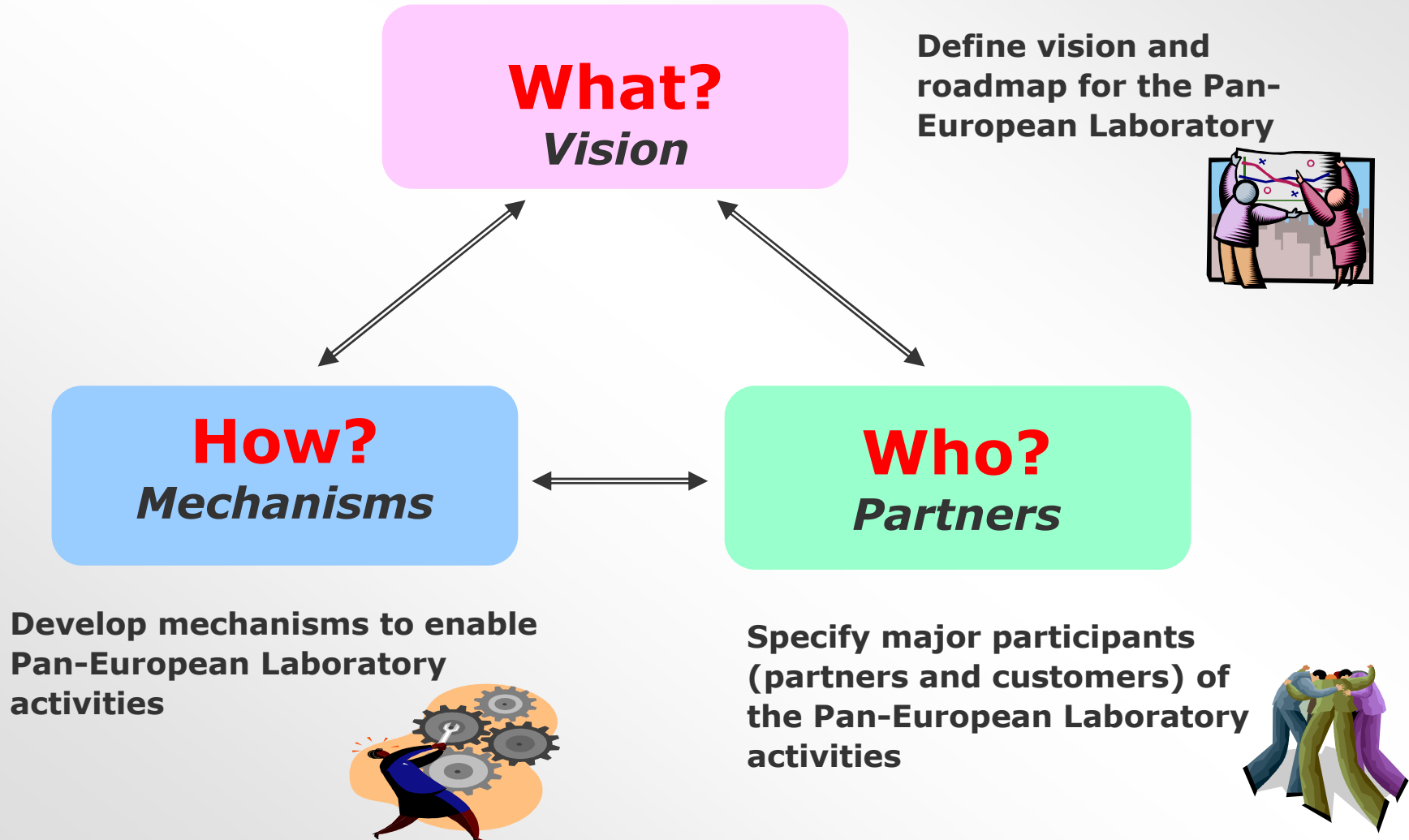
**Panlab
Federating European
networking testbeds**

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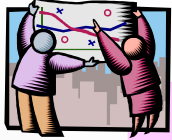
Abstract Definition

The Pan-European Laboratory is a concept that is being introduced to enable the trial and evaluation of service concepts, technologies, system solutions and business models to the point where the risks associated with launching of these as commercial products will be minimised

Building Pan-European Laboratory



Mapping to Project Objectives



What?
Vision



How?
Mechanisms



Who?
Partners

Define vision and roadmap for the Pan-European Laboratory based on detailed analysis of IST projects

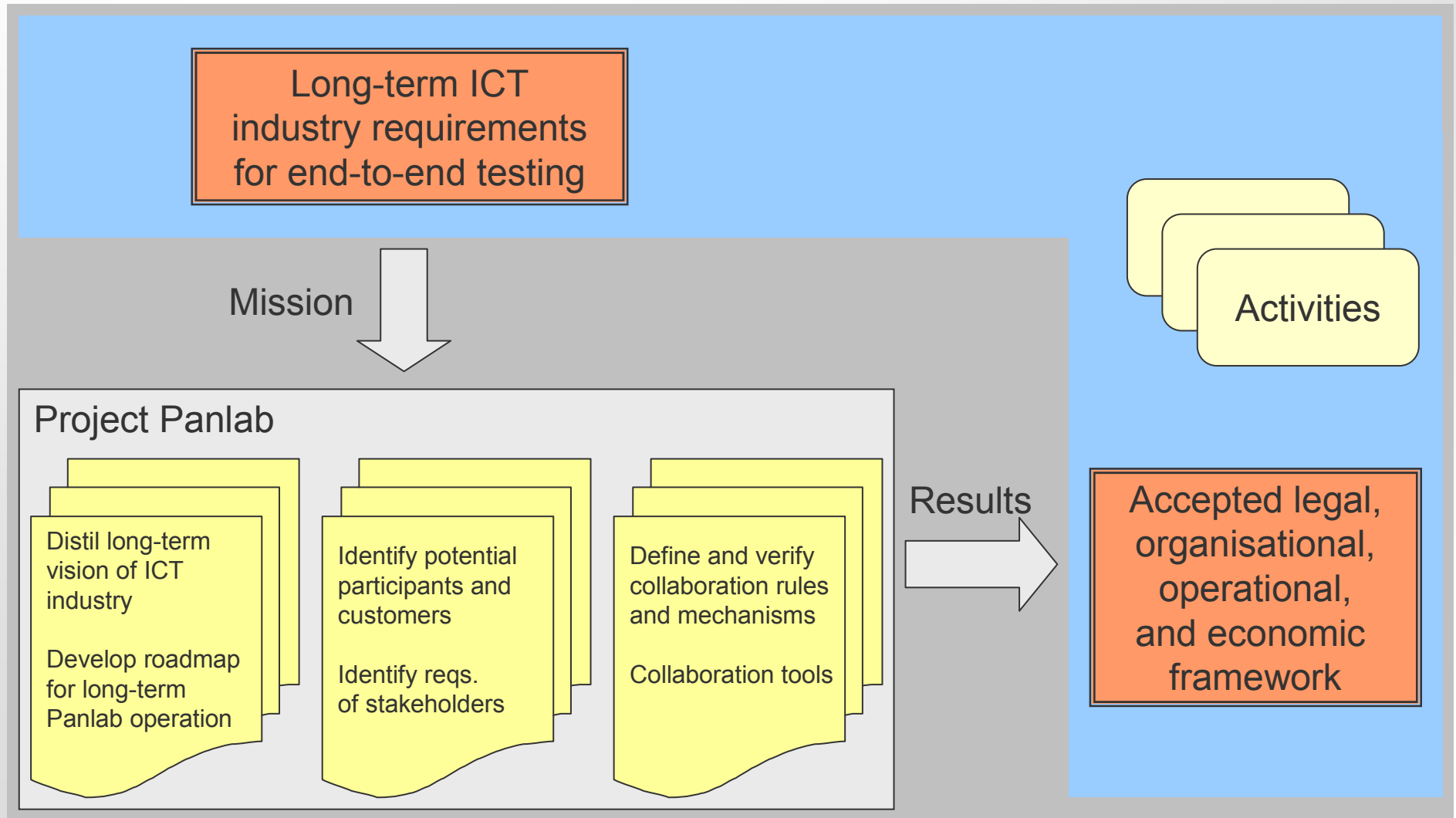
Develop and verify mechanisms to enable Pan-European Laboratory activities

- **Legal framework**
- **Organization tools (management and collaboration)**
- **Technical infrastructure**
- **Economic aspects**

Specify major participants of the Pan-European Laboratory activities

- **Partners**
- **Customers**

Pan-European Laboratory overview



Consolidating Vision for ICT

- ▶ Ecosystem – customers/partners
 - European collaborative projects that need large scale testbeds
 - Technology platforms
 - EUREKA clusters (CELTIC ...)
 - National collaborative projects ...
- ▶ Influencing Policies
 - Network neutrality
 - Internet governance ...

Consolidating Vision for ICT

- ▶ Areas/Directions
 - Services/Applications
 - Software/Middleware infrastructure
 - Network infrastructure
- ▶ General approach – comprise all the three layers and allow crossing the layer boundaries for testing and experiments
- ▶ Flexibility – to accommodate new technologies, solutions, services and developments
- ▶ End-to-end testing approach coping with heterogeneous technologies for core and access environment

Developing Vision for Panlab

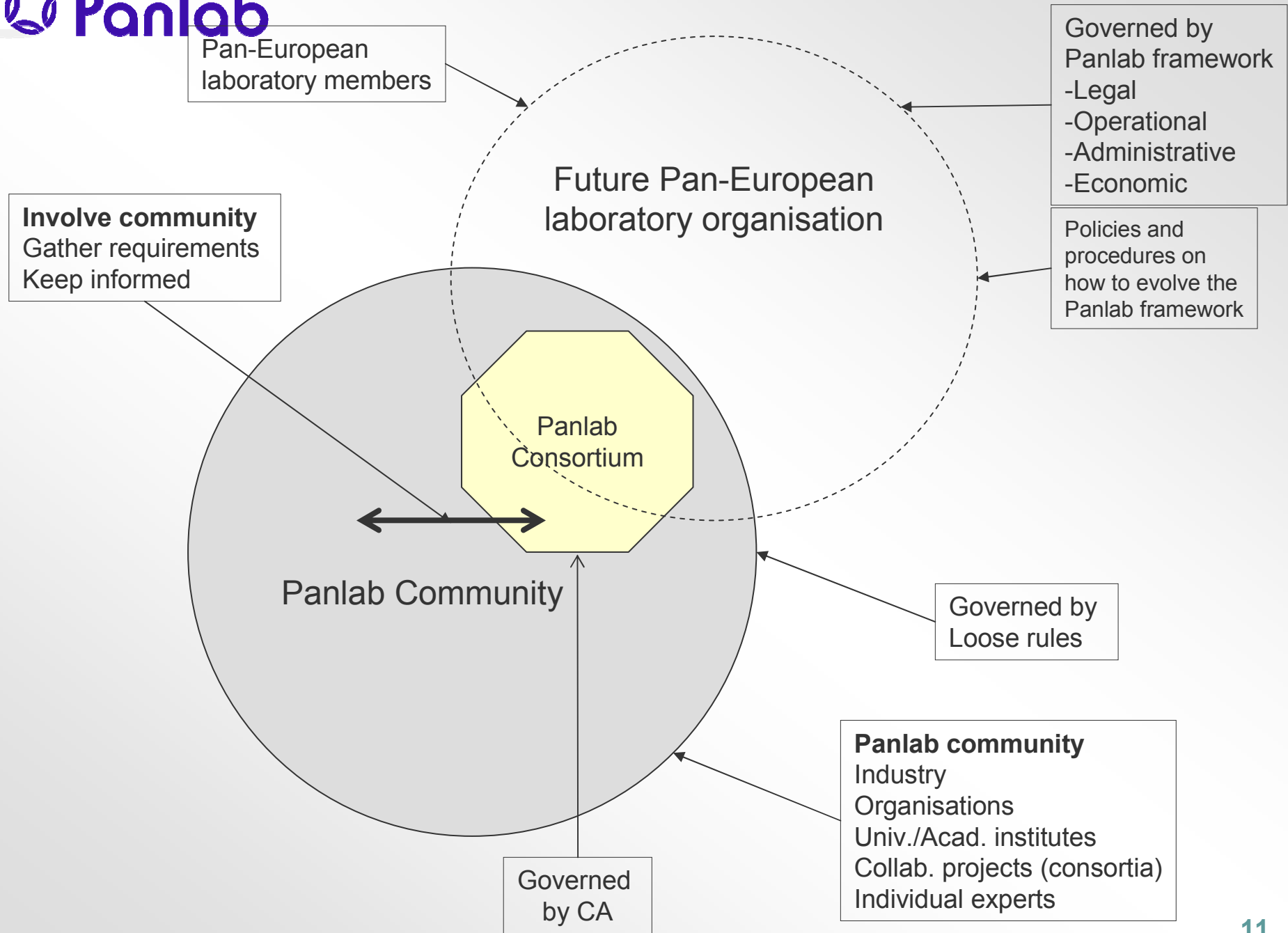
- ▶ Pan-European laboratory definition
- ▶ Stakeholders and competitive positioning
- ▶ General infrastructure requirement
- ▶ Required enabling mechanisms
 - Legal: IPR, confidentiality, conflict resolution, arbitration
 - Organisational: entrance, leave, search, call for testing if demand not answered
 - Operational: scheduling, resources allocation
- ▶ Economic sustainability

Roadmap

- ▶ Define the period towards the end and after Panlab
- ▶ When and what must be available to operate the Pan-European Laboratory?
- ▶ Legal status
- ▶ Economic sustainability

Long-term vision for operation

- ▶ Preserve European investments in testbeds by providing the incentives for re-use and further development of existing testbeds
 - Find testing facilities – Test-Google
 - Create competition for high quality and state-of-the-art
- ▶ Integration of new experimental facilities as they become available and mature
 - New technologies
 - New testbeds and laboratories joining the federation
- ▶ Coordination of the activities by a centralised entity offering an organisational structure and other services (e.g. brokerage)



Legal aspects

1. Single testbed serving a customer, where a bilateral contract for testing services has to be negotiated between the test-bed and the customer
2. Federation of independent testbeds serving customers, where a multilateral agreement, including responsibilities of so-called prime contractor, for the testing service contract has to be negotiated between the prime contractor and all customers and test-beds
3. **Organised federation of independent testbeds. Pan-European Laboratory organisation, where various relationships are specified in standard legal documents including contracts between member testbeds and customers as well as non members. The organisation operates an office.**

Pan-European Laboratory Legal Structure

▶ Entities

- Organisation (federation/association)
- Office

▶ Participants

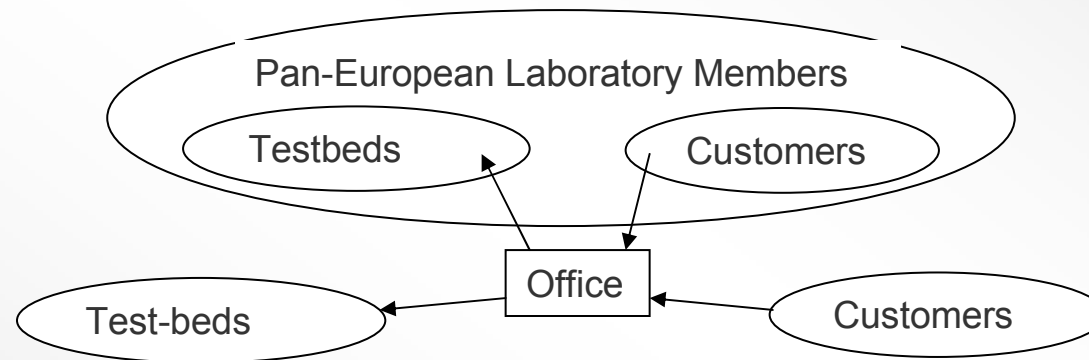
- Core Group – founder companies and organisations
- Members – service (testbed) providers and customers
- External testbeds and customers

Entity Definition

- ▶ Form of organisation and office
 - Non-profit or profit oriented organisation?
 - Independent, or controlled by whom?
 - What type of public support if any?
 - Legal form: association?, in accordance with EC or a member state law?, ...
- ▶ Required legal documents
 - Article of association, Definition of memberships, Rules for bodies
 - Agreement on Office, ...

Definition of Relationships

- ▶ Operational rules within and around the Pan-European Laboratory



- Membership and fee (for using services) models
- Definition of tests and test projects (duration, resource sharing, etc.)
- Regulation of IPR and trust, conflict resolution

Thank you

www.panlab.net

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