



OpenSource Software in CVICSE

Blending、 Cooperation and win-win

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Agenda

- **OpenSource in CVICSE**
- **Some tips and best practices**
- **Uses Case**



- **2001--2008: Use of open-source projects in the project, JonAS、ASM、OpenEJB、Tomcat、Struts ...**
- **2008—Now: Use And participate in open source projects,**
 - ▶ **Hosted on www.trustie.net 和 www.ow2.org.cn**



- The first stage (2008 year)

- ▶ **Research and development and the formation of the project results:** The information of the overall technical standard, breakthrough the key of the software production technology、 the establishment of public infrastructure, integrating existing achievements

- The second stage (2009 year)

- ▶ **The evaluation and improvement of the project results:** Facing important national industries and application practice, and promoting the maturation of the tools and environment.

- The third stage (2010 year)

- ▶ **The application of the project results:** Producing the technology and application of the model, to support major applications, leading the development of software industry.



“Trustie” Project Team

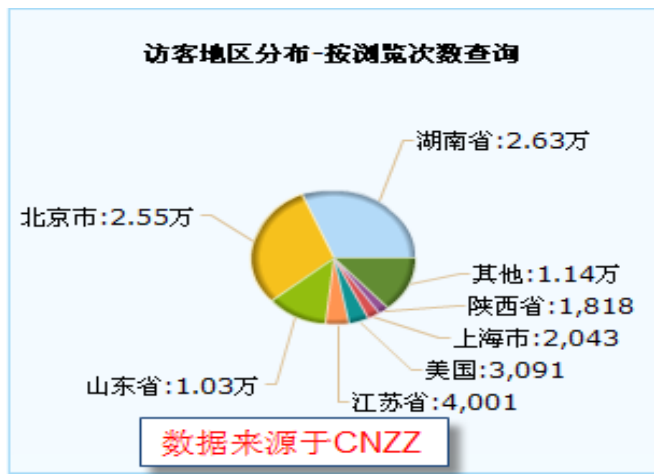


Total of 32 units
University : 17
Research institutions : 5
Enterprise : 10



"Trustie" project The current application situation

- Effective registered users more than 20255 people
- Effective activities registered in research project 519
- Enterprise edition 206 users
- Portal average daily traffic over 15000 people

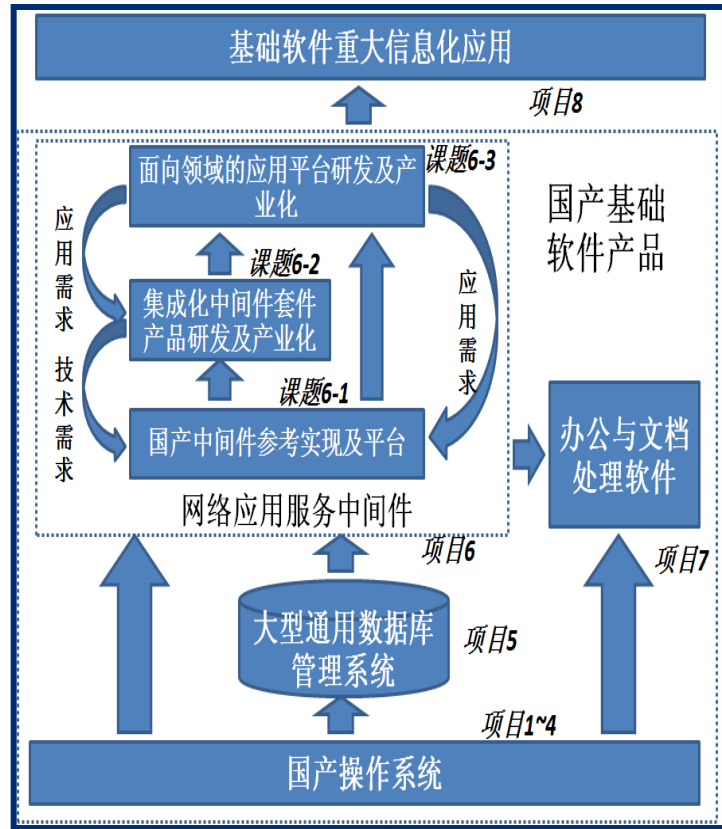


- **“Network application service middleware” Project in the basic software plays an essential role**
- Shielding bottom operating system、 Database management system and network difference
- Coordination of all kinds of resources in the bottom, For the application of the system to provide the operation support environment.
- And the operating system, database management system and office document processing software supporting.
- Form domestic based software package products, support based software major informatization project.



Domestic middleware reference implementation of the project

- ❖ Domestic middleware around the reference implementation
- ❖ And its continuing productization and industrialization to begin the work
- ❖ Common structure domestic middleware
- ❖ ‘production, study, research, apply’ industry ecological chain
- ❖ Generality demand, The fusion results ‘production, study, research, apply’ for middleware
- ❖ Provide domestic middleware reference implementation and operation platform
- ❖ Formation related technology standard and reference implementation of the Shared pool

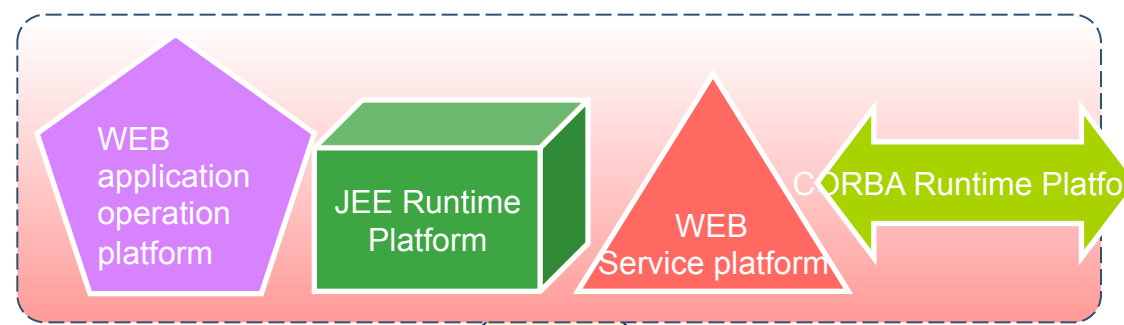


- Produces study grinds combination :
 - ▶ CVIC SE take the lead, Beijing University 、 Beijing University of Aeronautics and Astronautics、 National University of Defense Technology、 Chinese Academy of Sciences Institute of Software 、 Nanjing University 、 Xi'an Jiaotong University、 TongTech 、 Apusic 、 Intervision participate in
 - ▶ **First stage (2009-2010)**
 - ▶ Project achievement development and formation: Form the overall technical specifications, Integrated the previous research, Break through the key technology, Issued relevant results
- **Second stage (2011)**
 - ▶ The project results application and promotion: Support major application, Produce technical and demonstration application
- **Third stage (2012)**
 - ▶ project acceptance: April 2012 successfully completed the project .

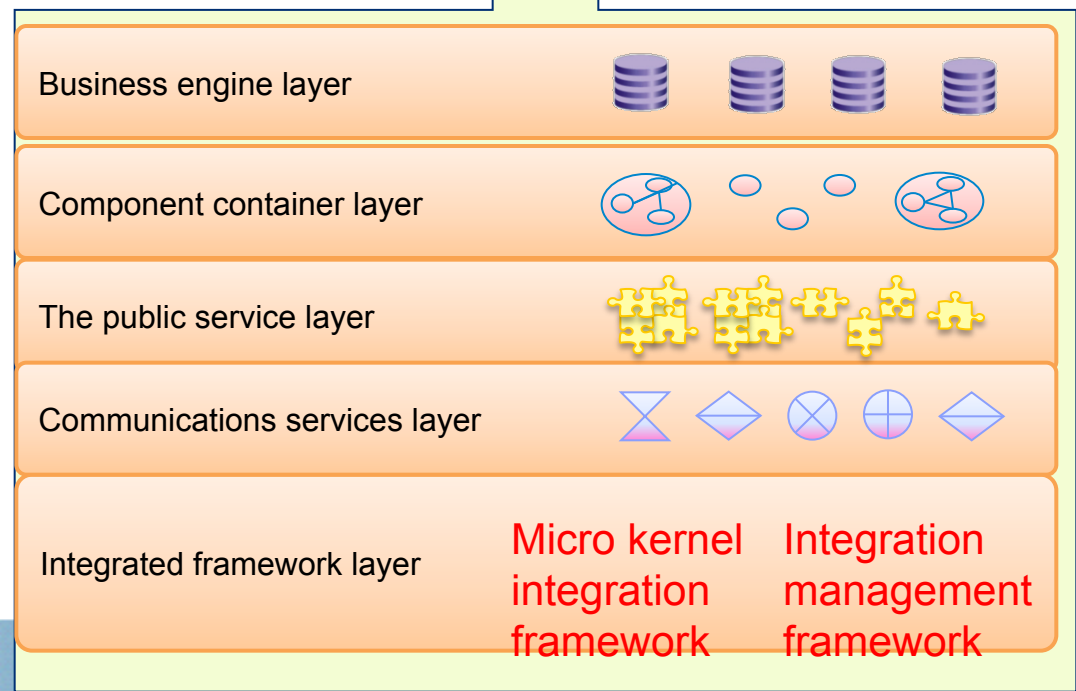


- ❑ **Loong** Basic Platform inside
- ❑ According to the technical architecture and technical system needs
- ❑ From the reference implementation resource pool matching and assembly all kinds of member
- ❑ Form for **JavaEE**、**Web service**、**CORBA** technical standard Network application service operation support platform
- ❑ Support many kinds of the application of network deployment of operation and management

Network application service operation support platform



integration

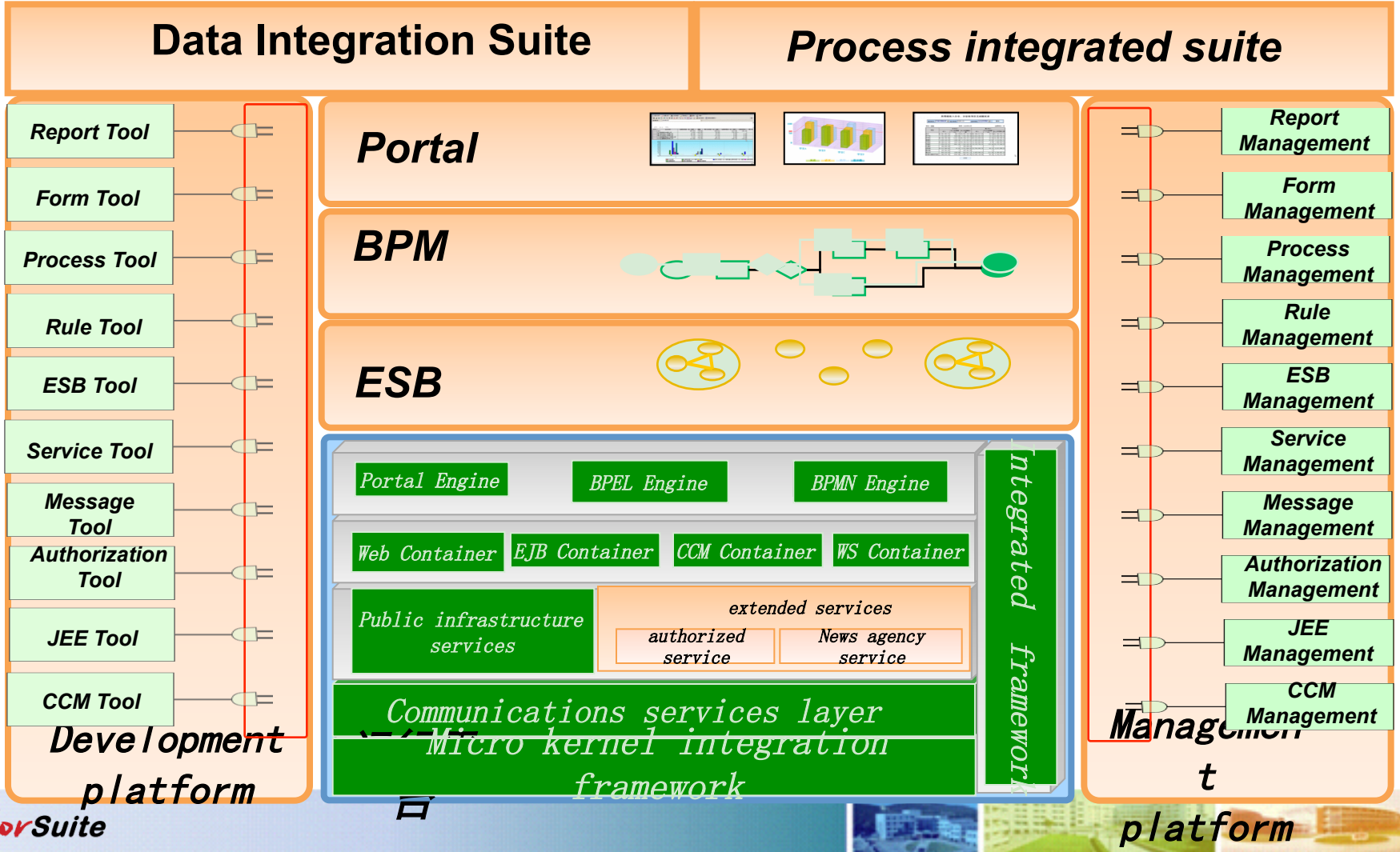


- A number of technical contribution to JO2nAS, improve JO2nAS technical level and competitiveness
 - ▶ Supports multiple versions of component single container system
 - ▶ **Axis2** integration framework
 - ▶ **OSGI** office terminal
 - ▶ **Geolocation** – Open source community distribution
 - ▶ Middleware platform for the sharing of the cluster resources management
 - ▶ Complicated application system adaptive management Jasmine
 - ▶ Open source project best practice measure
- Promote OW2 middleware technology transformation
 - ▶ From the middleware transition to a cloud



JO2nAS is Europe's first, the world second open source application server. JO2nAS France Telecom has been applied to over 300 subsystems, as well as Europe, South America, Asia, a number of the banking system and government system tens of thousands of customers, directly downloaded 100 million times.





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■ Tips and best practices:

- ▶ Use open source program to reduce development cost, shorten the development cycle.
- ▶ A very good reference to guide product development.
- ▶ Version management problems
 - Version conflict
 - The same project but different versions
 - Compatibility between the different project
 - Version upgrade strategy
- ▶ Software quality problems



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intelligent transportation system



- The two rivers converge, the three towns distributed, rely on the bridge and tunnel traffic
- Infrastructure construction speed is difficult to meet the fast expansion of traffic demand, road and bridge investment cannot form a benign circulation.

- WHETC Use the CVICSE loong platform as the core to build.
- WHETC Research and development cycle only **six months**, system development and implementation of comprehensive benefit Increased dramatically compared to traditional way.
- **July 1, 2011** on-line success, stable and reliable operation





thanks !



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