



INSTITUTE OF INFORMATION TECHNOLOGY

Welcome to

INSTITUTE OF INFORMATION TECHNOLOGY



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Vietnamese Academy of Science and Technology



Content

- Introduce Institute of Information Technology (IOIT) – Vietnamese Academy of Science and Technology (VAST)
- Grid computing in VAST
- Large-Scale Software Verification



Where are we ?





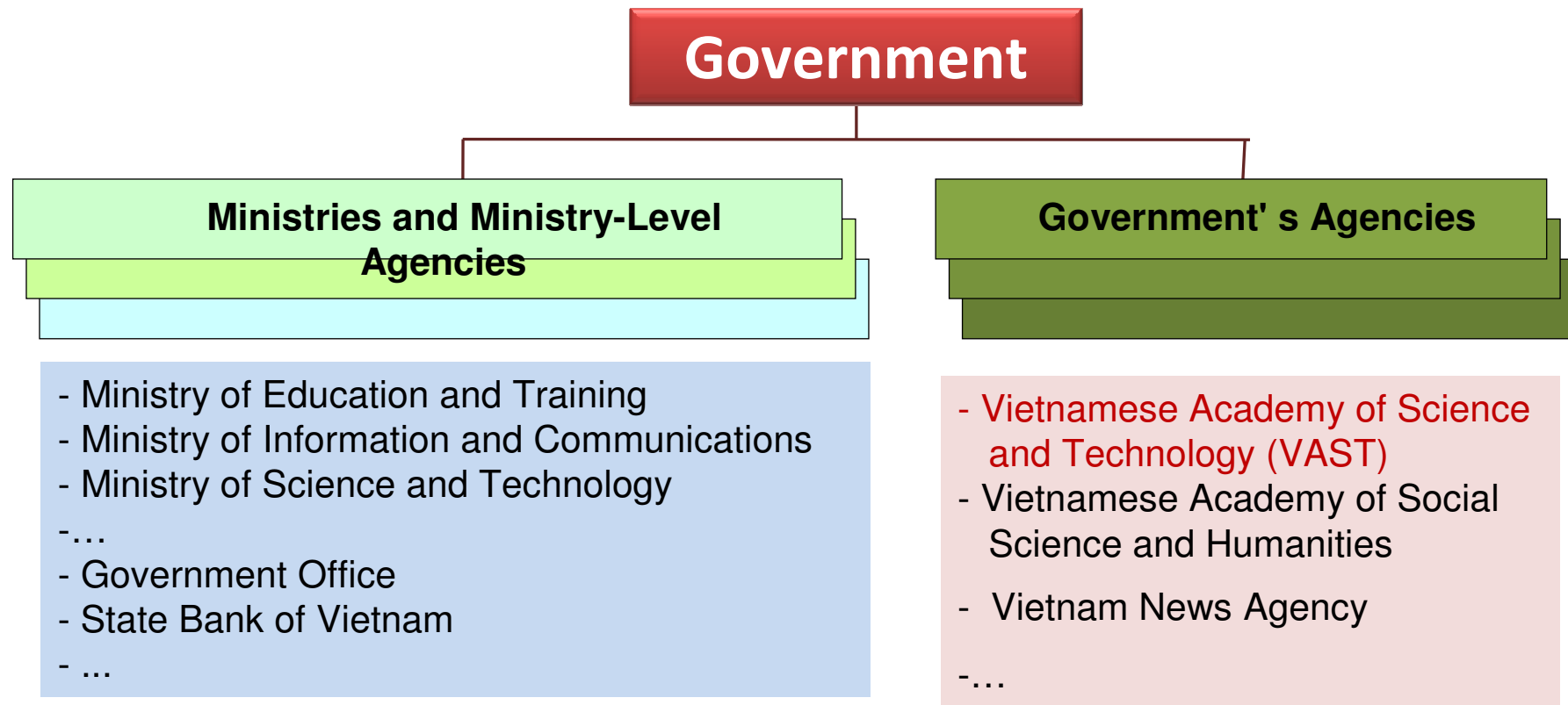
Background

- IOIT – the biggest IT research Institute in Vietnam, one of 30 National Institutes from VAST
- Brief History: Institute established in 1976
 - Institute of Computer Science and Cybernetics (ICSC), 1976
 - Institute of Informatics (IOI), 1989
 - **Institute of Information Technology (IOIT), 1993**



Vietnam Government

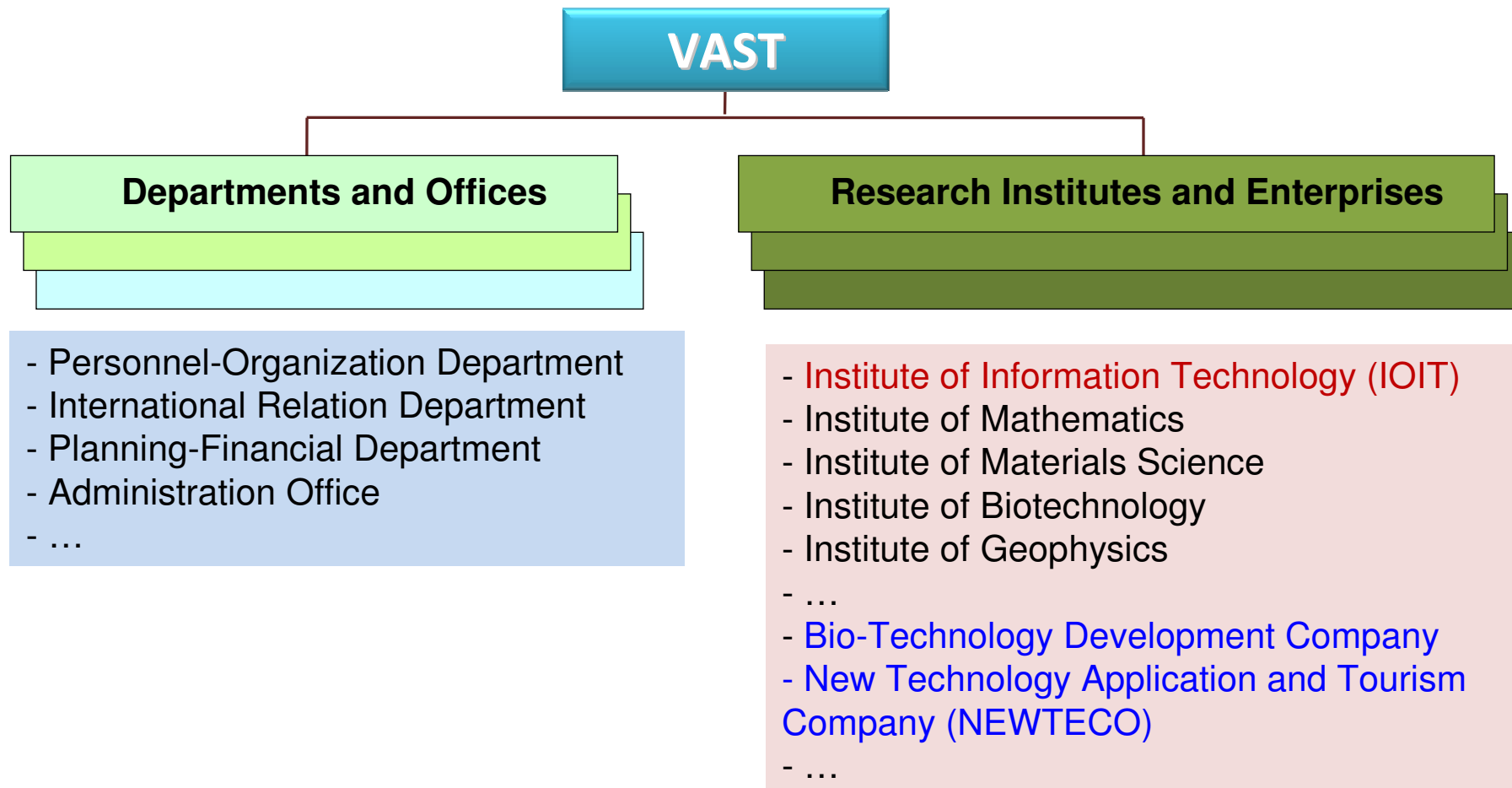
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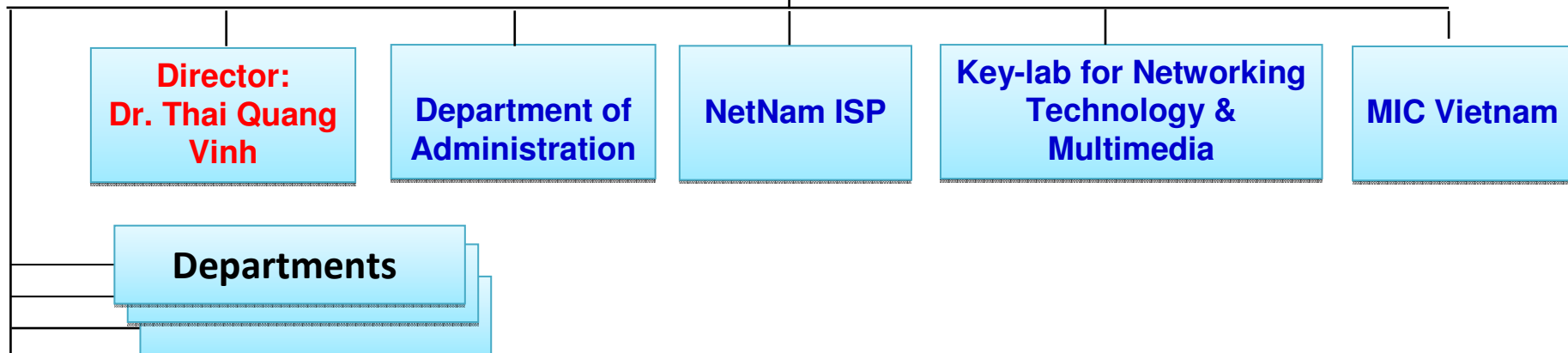
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Institute of Information Technology (IOIT)

www.ioit.ac.vn



1. Integrated Software Systems
2. Data Management Systems
3. Software Engineering in Management
4. Databases and Programming
5. Geographical Information Systems
6. Pattern Recognition and Knowledge Engineering
7. Management Information Systems
8. Computer Networking and IT Infrastructure

9. Telematics
10. Mathematical Aspects of IT
11. Computational Statistics
12. Automation Technology
13. Applications of IT to Control
14. Expert Systems and Soft Computing
15. Systems and Management Research
16. Virtual Reality Systems



Human and Research Resources

- IOIT staffs: ~170 permanent members including ~50 Dr.SC., Ph.D. and 20 Prof, Assoc. Prof., organized in 16 Research Departments; ~50 contract-based members
- Ph.D. and MS. Programs
- One National Key Laboratory for Networking Technology and Multimedia
- NetNam - the spin-off company of IOIT is one of the first four Internet Service Providers (ISP) in Vietnam
- **Uni. of Science and Technology of Hanoi (USTH)**
 - Faculty of Information Technology, www.usth.edu.vn



IOIT Functions

- Carry out fundamental researches on IT
- Develop IT applications, technology transfer, consult, supervise and appraise IT projects
- Design and develop IT products (software, embedded system,...)
- Train scientific researchers on IT
- Organization of conferences, workshops
- International cooperation in IT



Main R&D topics

- Database, Knowledge Base, Information Systems
- Pattern Recognition
- Computer Vision, Image Processing, Computer Graphics, GIS
- Multimedia, Virtual Reality
- Natural Language Processing
- Software Technology
- Networking Technology, Telecommunication
- Automation and Control, Embedded Systems
- Socio-Economic Information Systems, Management Research
- Numerical Methods, Statistics



International Projects

- A-STAR: Asian Speech Translation Advanced Research, from ATR (Advanced Telecommunication Research Institute International)
- GRID/Cloud Computing: CNRS (IN2P3) France; VNGrid (PRAGMA); KISTI (Korea)
- UNFPA Project: Computer Software and Support for Population Activities
- Microsoft: Development of the training materials on new Microsoft technologies.
- IDEA: Images of natural Disasters from robot Exploration in urban Area (IFI, IOIT, L3i, UniKL)



International Cooperation

- JAIST, AIST - research projects (AI, NLP, knowledge engineering, software engineering...)
- Keio Univ - Asian Internet Interconnection Initiatives (AI3), School on Internet (SOI)
- Microsoft Innovation Center has been setting up at IOIT
- System Center NANO Corporation
- Nanyang Tech. Uni., Singapore on Virtual Reality; National University of Singapore
- Promoting Internet Policy and Regulatory Reform, with Internews Europe
- IDRC, Canada - Vietnamese portal, e-learning platform, Micro Impacts of Macro Economic and Adjustment Policies.
- University of California, San Diego on exchange fellowship programs

Hopefully, will have more cooperation in
the future !!!

Thank you!