



HANOI UNIVERSITY OF SCIENCE AND TECHNOLOGY

School of Electrical Engineering



School of Electrical Engineering

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Outline

□ Introduction

□ Education, research & technology transfer

- ❖ Field of study

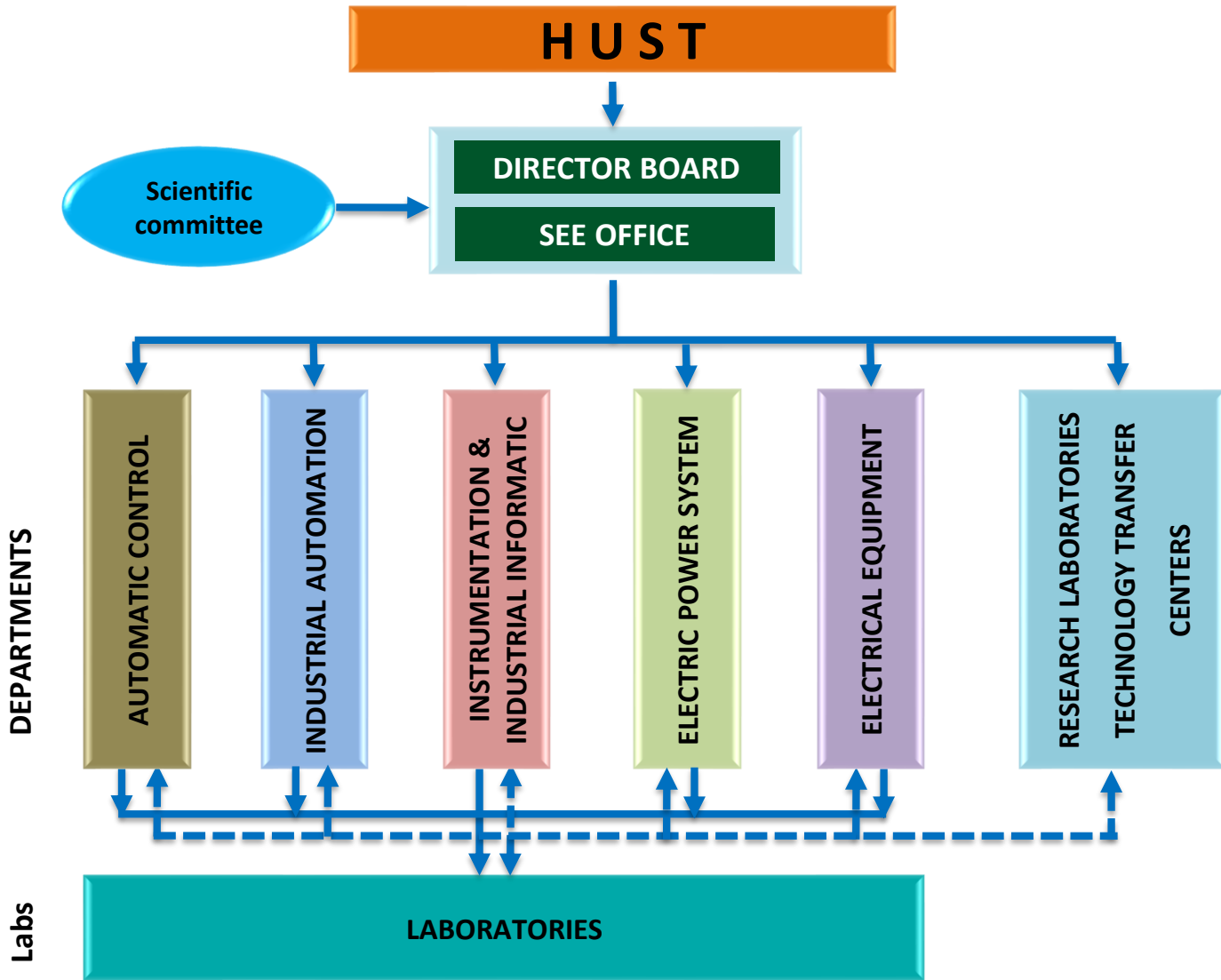
- ❖ Research & Technology transfer

□ Cooperation

□ Discussion



ORGANIZATION



RESOURCE

□ Human resource: 142

- ❖ Researcher/Teacher: 120
 - 68 PhD.
 - 87% PhD. graduated from overseas
- ❖ Staff & Assistant: 22



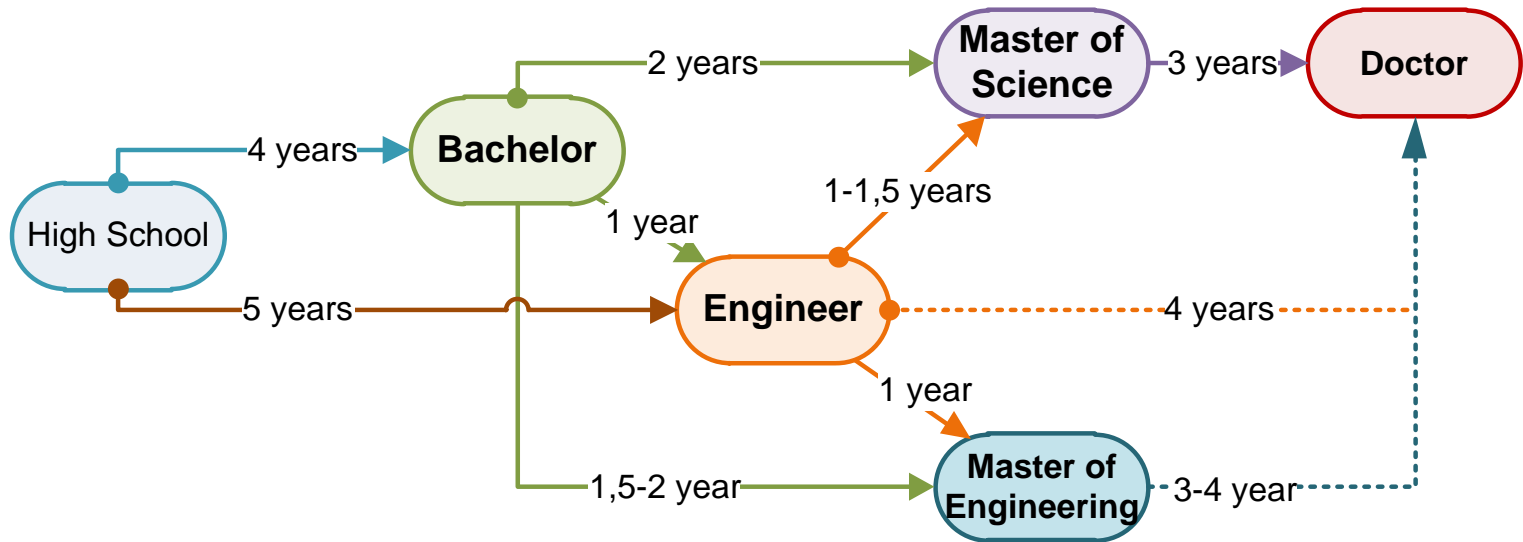
□ Facilities

- ❖ 28 laboratories (>2000m²)
- ❖ Cooperation with industry



STUDY PROGRAMS

□ Basic program



□ Special program

- ❖ **Advanced program in Electronic & Electrical Engineering (in English)**
- ❖ **High quality engineer program in Instrumentation & industrial informatics**
- ❖ **Talent engineer program in Automation Control**



FIELD OF STUDY

□ Electrical engineering

❖ Electric power system

- High voltage engineering
- Power operation
- Power system protection & Control
- Power distribution system
- Power transmission system

❖ Electrical equipment

- Electrical machine design
- Electrical devices
- Electrical device control



FIELD OF STUDY

□ Control & Automation

❖ Instrumentation & industrial informatics

- Signal processing
- Theories of electric & electromagnetic
- Electronic & microprocessor



❖ Automatic control

- Theories of automatic control
- Process control
- Motion control



FIELD OF STUDY

□ Control & Automation

❖ Industrial automation

- Embedded system
- Electric vehicle
- Power electronic
- Control
- Robotic



TRAINING & RESEARCH COOPERATION

□ Domestic cooperation

- ❖ Co-research & Technology transfer
- ❖ Advanced Training
- ❖ Workshops
- ❖ Scholar exchange



SME



SoICT



MICA



SET



Thai Nguyen university



HCM university



EVNEPU
ĐẠI HỌC ĐIỆN LỰC
Electrical power university



Vietnam Metrology Institute



Da Nang university



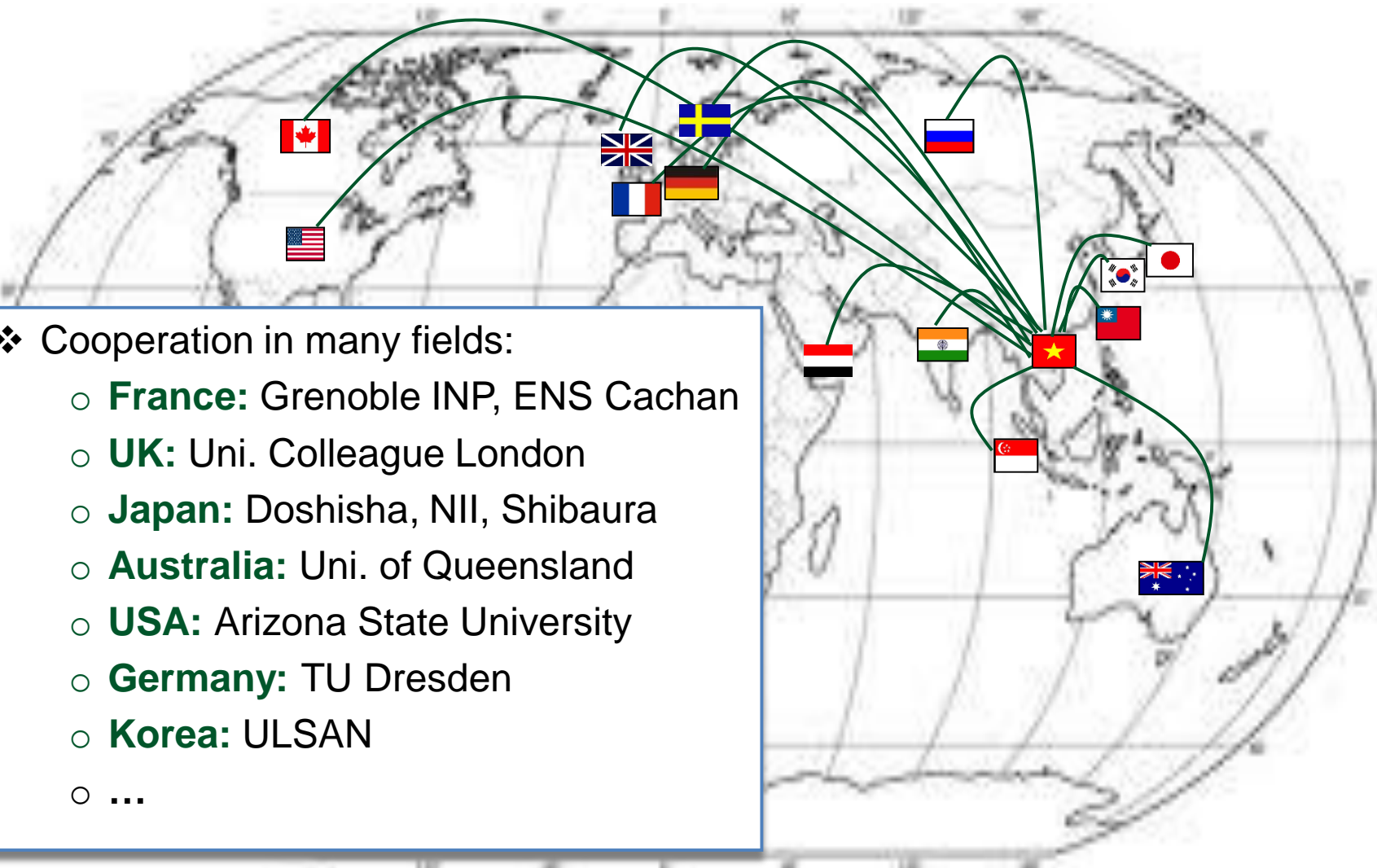
Quy Nhon university



TRAINING & RESEARCH COOPERATION

□ International cooperations

- ❖ Cooperation in many fields:
 - **France:** Grenoble INP, ENS Cachan
 - **UK:** Uni. Colleague London
 - **Japan:** Doshisha, NII, Shibaura
 - **Australia:** Uni. of Queensland
 - **USA:** Arizona State University
 - **Germany:** TU Dresden
 - **Korea:** ULSAN
 - ...



INDUSTRIAL COOPERATION - in Vietnam



Vietnam Electricity



National Power Transmission corporation



Vietnam Metrology institute



Vietnam Electrical Equipment corporation



Vietnam Cement Industry corporation



Vietnam Paper corporation



PetroVietnam power corporation



Vietnam National Chemical group



Construction Machinery corporation



Infrastructure Development & Construction corporation



Song Da corporation



INDUSTRIAL COOPERATION - international

COOPERATION

OMRON

SIEMENS

 TEXAS
INSTRUMENTS

ABB

Tektronix®

ALSTOM

Rockwell
Automation

 NATIONAL
INSTRUMENTS™

 LG

SAMSUNG

Schneider
Electric

 FANUC

 ZEBRA TABUCHI ELECTRIC CO., LTD.

