

HR Development for Language Computing Technology in Thailand

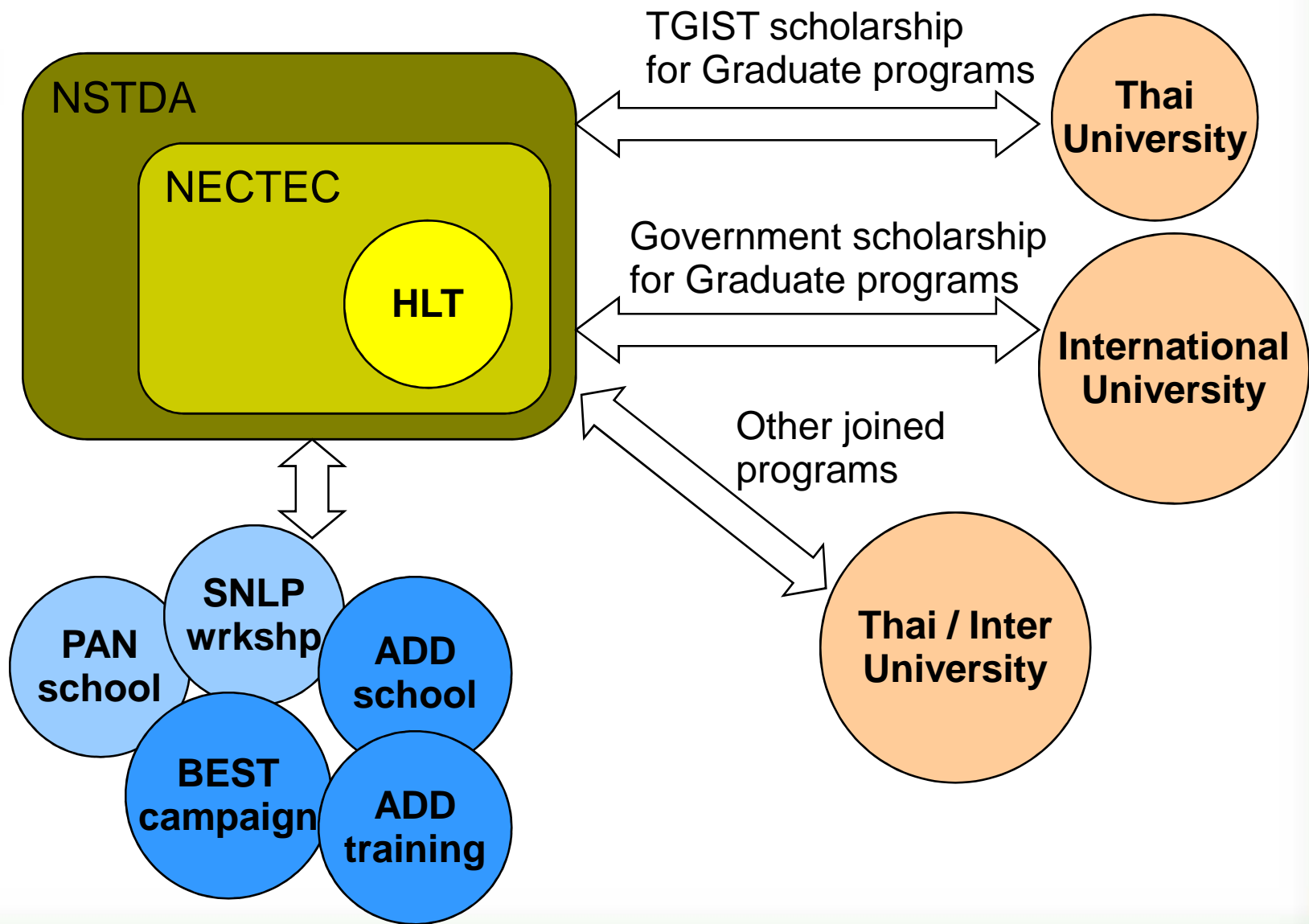
Chai Wutiwiwatchai

Human Language Technology Laboratory
NECTEC, Thailand

Outline

- **NECTEC HR Development**
- **NECTEC in ADD Project**
 - Goal
 - Experience
 - Lesson learnt
- **HR Development in Thailand**
- **Future Goals**

NECTEC HR Dev.



ADD Project

- **A** **Asian Applied Natural Language Processing for Linguistics** **D** **Diversity and Language and Language Resource** **D** **Development**
 - Collaboration with NICT (Japan) and SIIT (Thailand) since 2006
 - ADD NLP schools
 - Bilateral collaborations for specific R&D topics e.g. OCR and TTS



NECTEC Purpose

- Exploring a possibility to **group similar languages** considering their spoken and written characteristics, gathering
 - Specific language **tools** for each group
 - Recommended **resource development framework** for each group
 - Sources of **knowledge** for language computing research and development in each group
- **HR resource development to sustain and deploy the language processing technology in real markets**

NECTEC Experience

- **ADD-1: Introduction to NLP**

- Overview of various NLP topics including
 - + Automatic speech recognition
 - + Text-to-speech synthesis
 - + Optical character recognition
 - + Machine translation
 - + Computational linguistics



- **ADD-2: Text processing**

- Fundamental text processing
 - + Morphological analysis
 - + Syntactic parsing
 - + Computational linguistics



NECTEC Experience

- **ADD-3: Pattern recognition**
 - Optical character recognition
 - Automatic speech recognition
- **ADD-4: Resource development**
 - Text corpora
 - Speech corpora



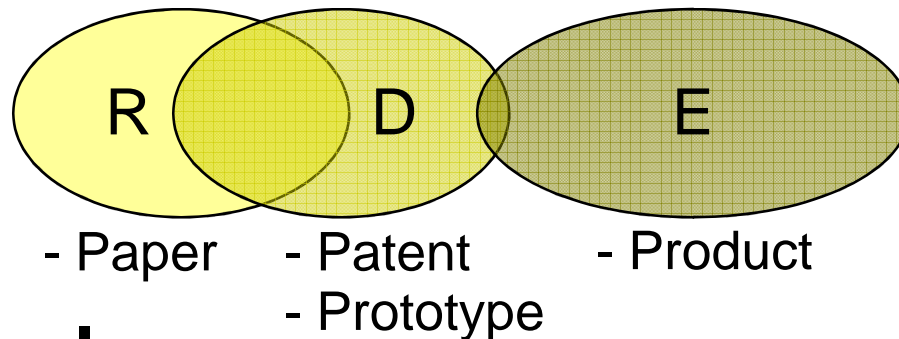
Lesson Learnt

- **Different levels of participant's expertise in language processing technology**
 - Pre-requisite and pre-study
- **Different areas of participant's expertise**
 - Depending strongly on participant's current research and development issues
 - Leading to the narrowing down of topics
- **Following up after the schools**
 - Resources, tools, and knowledge portal
 - Bilateral collaborations among countries in particular topics

Future Goal

- **Technology deployment**

- Still a big gap of R&D to Engineering
- HR development for engineering



- **New technology**

- HR development for advanced technology
e.g. QA and Summarization

- **Sustaining regional collaboration for HR development and resource sharing**