

## Keynote Speakers



**Mr Nguyen Nam Son**  
Vietnamese  
Department of Forestry



**A/Prof Dr Vien Ngoc Nam**  
Nong Lam University



**A/Prof Dr Tuan Quoc Vo**  
Can Tho University

## Project AIMVIE The First Stakeholder Workshop

### WORKSHOP PROGRAMME

### CHALLENGES IN MANGROVE FOREST MANAGEMENT AND UTILISATION IN VIETNAM

**Morning 19 May** (time is local in Vietnam)

- 07:30 Registration
- 08:00 Opening remarks  
*Can Tho University*
- 08:10 Introduction of project AIMVIE - AI Solutions for Mangrove Blue Carbon in Vietnam  
*Dr Quan Le*
- 08:15 Keynote 1: Coastal Mangrove Forest Mapping and Management in Vietnam  
*Mr Nguyen Nam Son, Vietnamese Department of Forestry*
- 08:30 Keynote 2: Applications of Technologies in Mangrove Ecosystem Management in the Can Gio Biosphere  
*A/Prof Dr Vien Ngoc Nam, Nong Lam University*
- 08:45 Keynote 3: Applications of Uncrewed Aerial Vehicle (UAV) and Artificial Intelligence (AI) in Mangrove Forest Mapping  
*A/Prof Dr Tuan Quoc Vo, Can Tho University*  
*Dr Nam Thang Ha, Hue University*
- 09:00 Break
- 09:10 Group Discussion 1: Challenges in mangrove forest monitoring and data collection  
*Facilitator: A/Prof Dr Tuan Quoc Vo*
- 10:15 Break
- 10:30 Group Discussion 2: Challenges in data access and usage for the management and conservation of mangrove forests  
*Facilitator: A/Prof Dr Tuan Quoc Vo*
- 11:30 Workshop closing remarks
- 11:45 Lunch

### Websites

Project AIMVIE	<a href="http://aimvie.org">aimvie.org</a>
Science Foundation Ireland	<a href="http://www.sfi.ie">www.sfi.ie</a>
Irish Aid	<a href="http://www.irishaid.ie">www.irishaid.ie</a>
University College Dublin	<a href="http://www.ucd.ie">www.ucd.ie</a>
Can Tho University	<a href="http://en.ctu.edu.vn">en.ctu.edu.vn</a>
CeADAR (Ireland's Centre for Applied AI)	<a href="http://ceadar.ie">ceadar.ie</a>

## TRAINING PROGRAMME

### MAPPING MANGROVES USING UNCREWED AERIAL VEHICLES (UAV)

*Trainers: A/Prof Dr Tuan Quoc Vo and colleagues*

#### Afternoon 19 May (time is local in Vietnam)

- 13:30 Introduction to Uncrewed Aerial Vehicle (UAV)  
Components and functionalities of a UAV  
Regulations on UAV operation, safety, privacy, and data protection
- 14:30 Introduction to UAV operation, equipment setup, and flight app
- 15:00 Break
- 15:15 Hands-on: UAV operation and control

#### Morning 20 May

- 07:30 Introduction to Agisoft Metashape Professional for UAV image processing
- 08:45 Data transfer and import into Agisoft
- 09:45 Break
- 10:00 Generate Digital Elevation Models, Digital Surface Models, and orthomosaics with Agisoft Photoscan

#### Afternoon 20 May

- 13:30 Aligning coordinate, height, and species data derived from UAV with site measurements
- 14:45 Break
- 15:00 Generate mangrove tree height maps using QGIS
- 16:00 Post-workshop assignments
- 16:15 Conclusion

