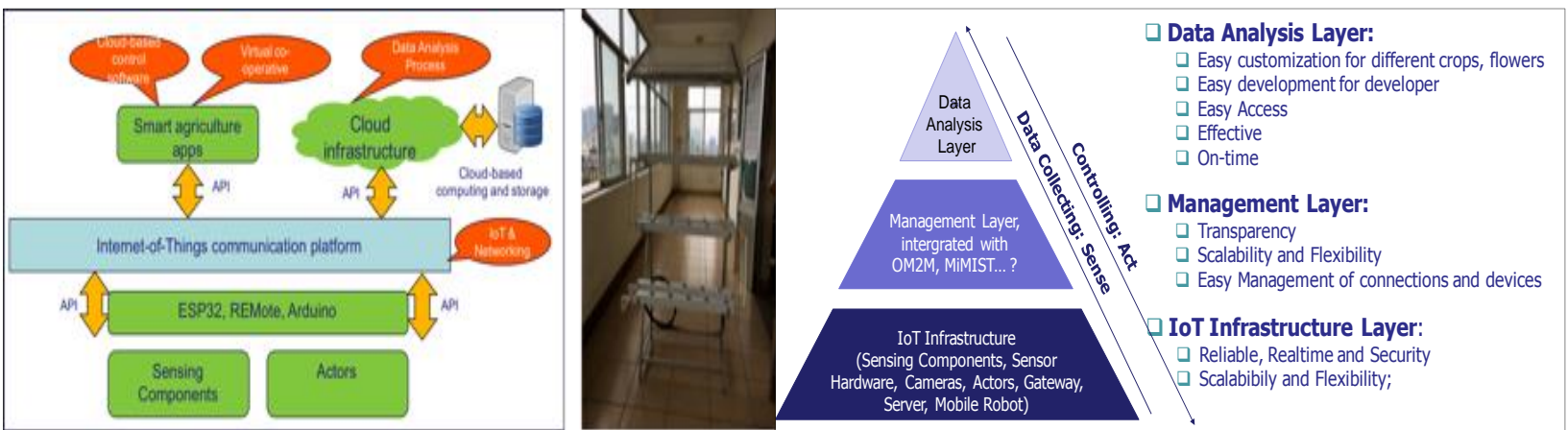


## Introduction:

In this project, we aim to develop a **Scalable and Distributed IoT Framework** for Hydroponic Greenhouse in order to increase **hydroponic production** with following requirements: **low cost, scalability, distributed, high performance and practical using**. This 3-layers framework (data collect and control, management and data analysis) consists of following components: **i) End-to-end IoT-based Infrastructure**, integrated with a **Mobile Robot** (optional). **ii) Transparent management component**. **iii) Cloud, Fog Computing and APIs**. **iv) Data Analysis**.



## Project Members:

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>• Thu Ngo-Quynh</li> <li>• Tomoyuki KURODA</li> <li>• Giang Nguyen-Linh</li> <li>• Son Ngo-Hong</li> <li>• Fumihide KOJIMA</li> <li>• Sonxay LUANGOUDON</li> </ul> | <ul style="list-style-type: none"> <li>Hanoi University of Science and Technology, HUST, Vietnam</li> <li>NEC Solution Innovators, NES, Japan</li> <li>Hanoi University of Science and Technology, HUST, Vietnam</li> <li>Hanoi University of Science and Technology, HUST, Vietnam</li> <li>National Institute of Information and Communications Technology, NICT, Japan</li> <li>Champasak University, CHA, Lao</li> </ul> |
|---|--|