

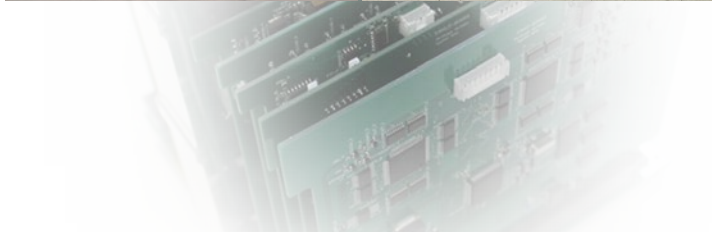
Activities of UNISEC-Japan student organization, UNISON

-What is UNISON?-

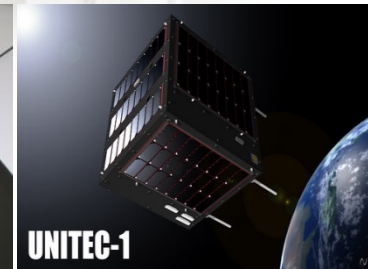
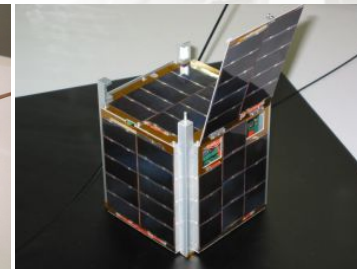
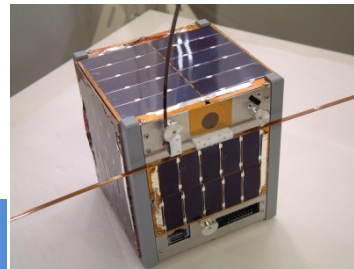
Presenter: Ryusuke KONISHI
(Keio Graduate School, UNISON rep)



CanSat and Rocket experiment('99~)

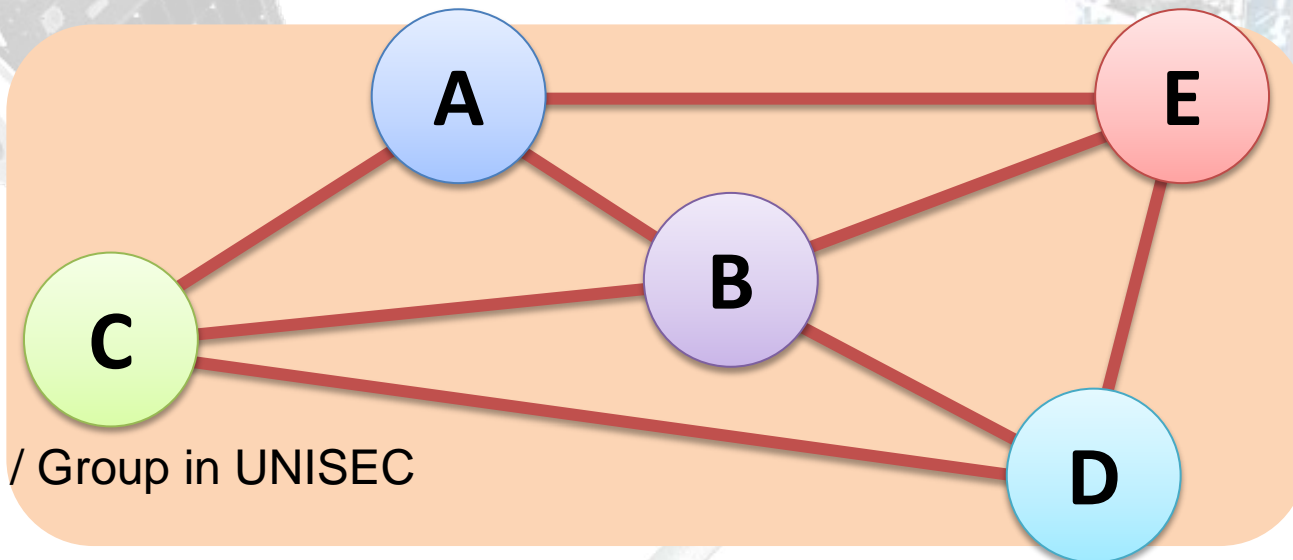


Cubesat Development('03~)



What is UNISON?

- UNISEC student organization, UNISON
 - Students in UNISEC belongs to UNISON



UNISON

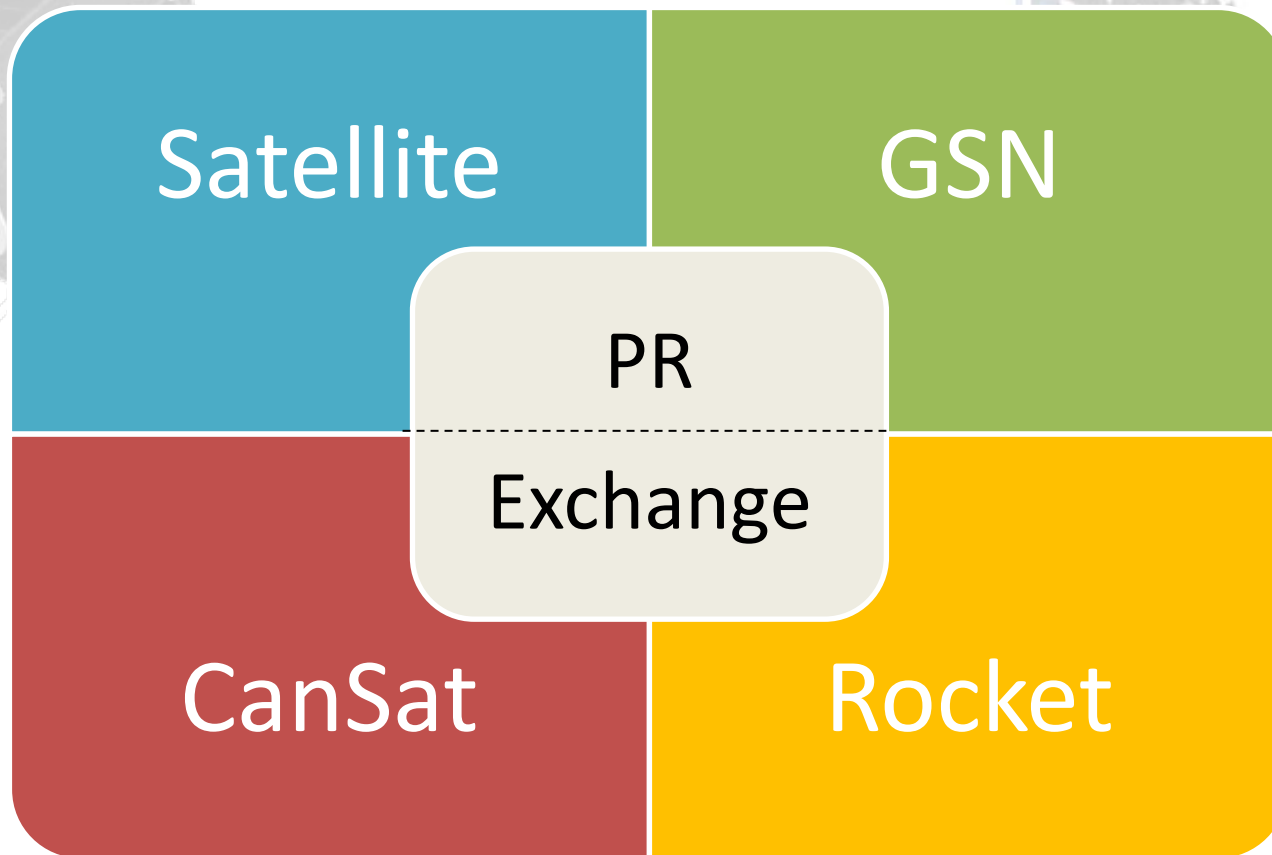
University / Group in UNISEC

Limited Resources, Limited Technologies in each university/group

Generate “Competition” and “Cooperation”
Improve technologies and Motivate students

Working Groups in UNISON

WG has own activities in each field



Satellite Working Group

- ◆ Operation by representative of each satellite development university
- ◆ Discussion on satellite technologies
 - Started in 2011 (6 times held)
 - (Topic) project management, thermal design, magnetic attitude control, communication, etc.
- ◆ Database construction
- ◆ Joint Development (UNICORN)
 - We aim challenge to the big project



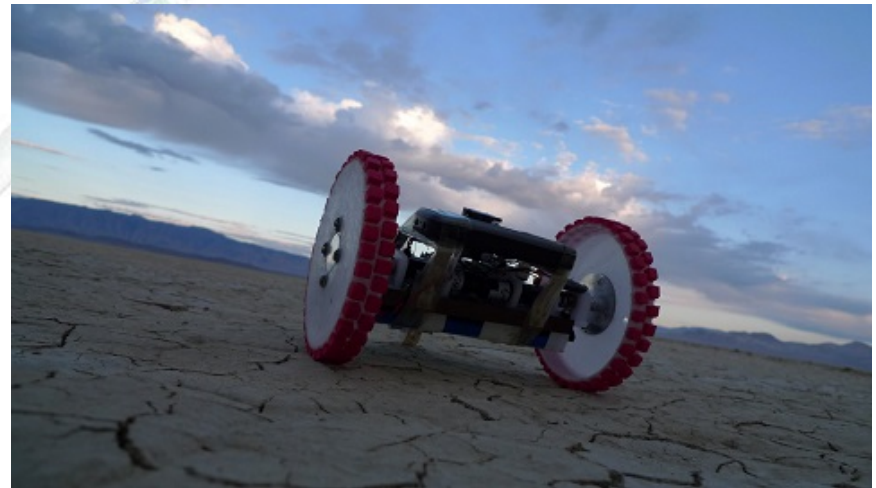
- ◆ Management of Noshiro Space Event in Japan
 - Noshiro Space Event is an amateur rocket competition which is held in mid-August every year in Noshiro city, Akita prefecture.
- ◆ Joint development (UNISTAR)
 - UNISTAR project (2011)
 - ✓ UNIsec STandard Rocket
 - ✓ Joint development among 8 organizations



CanSat Working Group

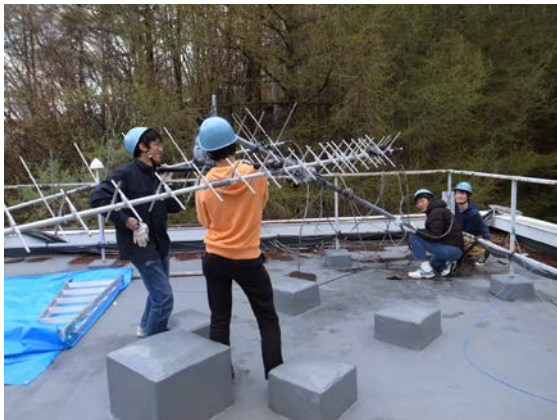
◆ Management of ARLISS

- A Rocket Launch for International Student Satellites
- International Cansat competition
 - Come Back Competition
 - Mission Competition



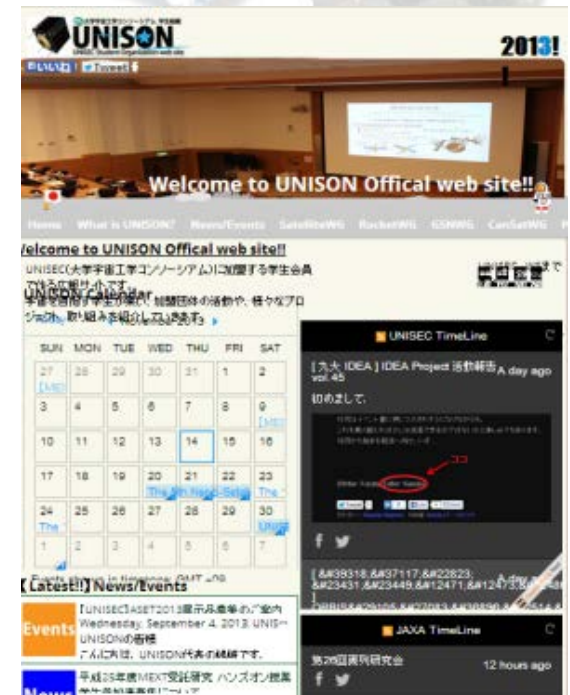
Ground Station Network Activities

- ◆ Ground Station Network construction
 - GSN has been active to construct a network-based ground station system for satellites operation.
- ◆ Cooperation of ground station
 - Common ground station and software
- ◆ Outreach



WEB and Outreach Working Group

- ◆ Management of UNISON website
 - Started in 2010
 - Share daily development activities (blog), projects' information, etc.
- ◆ Outreach



Benefits of UNISON

- Several events are held in UNISON
 - Improve technologies and Motivate students



Both are students in UNISON

Benefits of UNISON

- Several events are held in UNISON
- Both participants and managers can learn skills



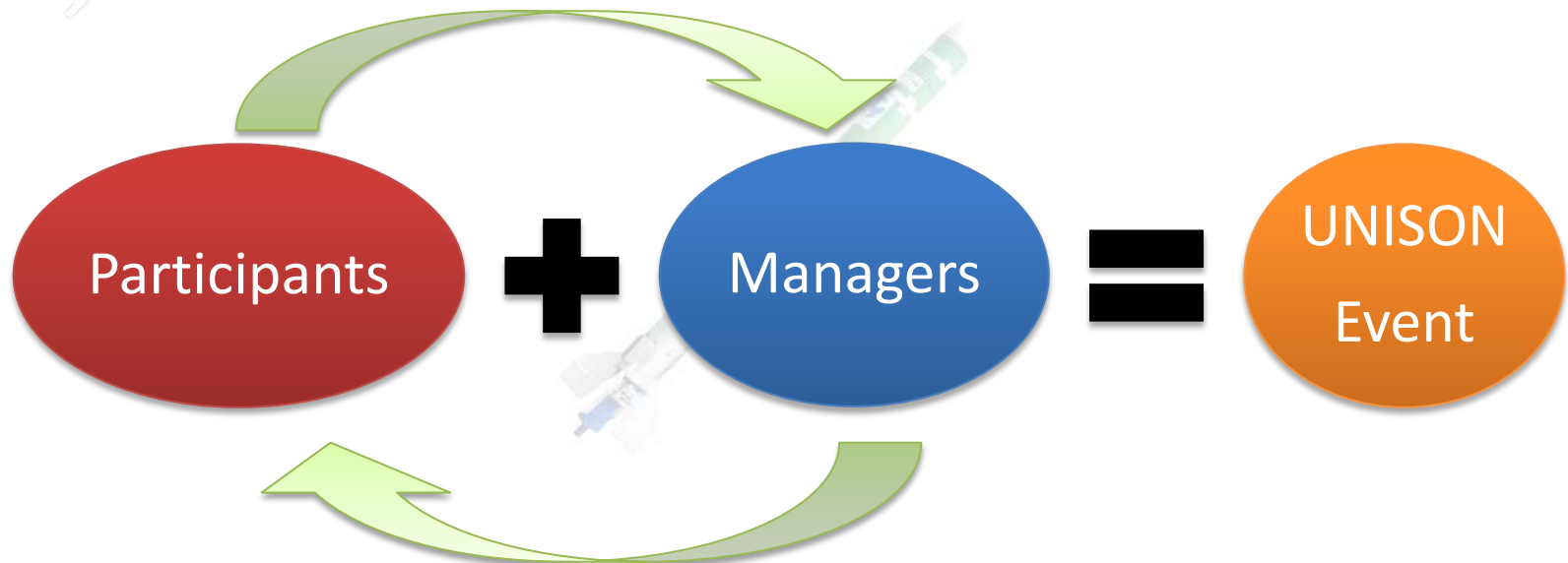
- Learn Practical skills
 - Engineering
 - Project management
- Communicate with each other

- Learn skills to run events
- Communicate with each other

* second-order benefit

Key concept

- Participants and Managers are **supporting each other**
- Participants play an important role in UNISON
 - It is impossible only for managers to make an event
- **This concept has been central to the history of UNISON-Japan for 10 years**



UNISAS and UNISON

- UNISEC Alumni Association, UNISAS
 - Stimulate UNISON members
 - Hold an assembly to make a good relationship

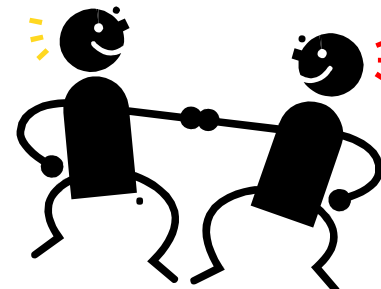
UNISAS

Vertical Relationship



UNISON

Horizontal Relationship



Conclusion

- UNISEC student organization, UNISON
 - The organization where students in UNISEC-Japan can smoothly communicate with each other and work several activities together
 - Realize “Competition” and “Cooperation” in UNISON
 - Both participants and managers can learn skills, supporting each other
 - Engineering skills
 - Running an event
- UNISEC Alumni Association, UNISAS and UNISON
 - UNISAS supports UNISON
 - “Vertical” relationship