



Royal University of Bhutan

Sonam Penjor
Deputy Chief ICT Officer
Office of the Vice Chancellor
The Royal University of Bhutan
s_penjor@rub.edu.bt

Bhutan

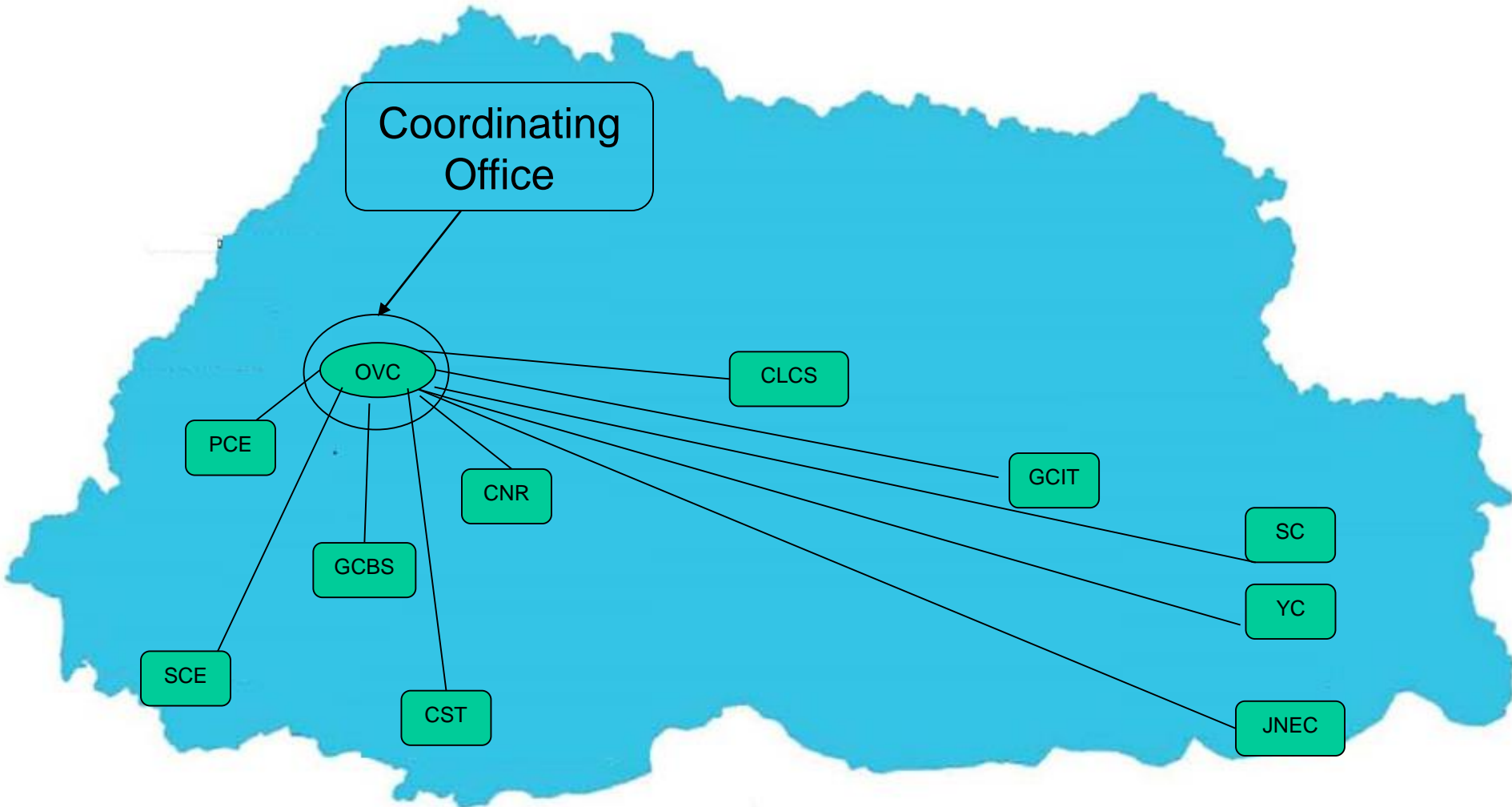


- Bordering with China and India
- Constitutional monarchy
- Population of 700,000
- Development philosophy of GNH

Royal University of Bhutan

- ❖ Established in June 2003 through the Royal Charter
- ❖ Distributed University
- ❖ A central coordinating office and 10 constituent colleges
- ❖ 9000+ students
- ❖ 900+ staff

Members of the University

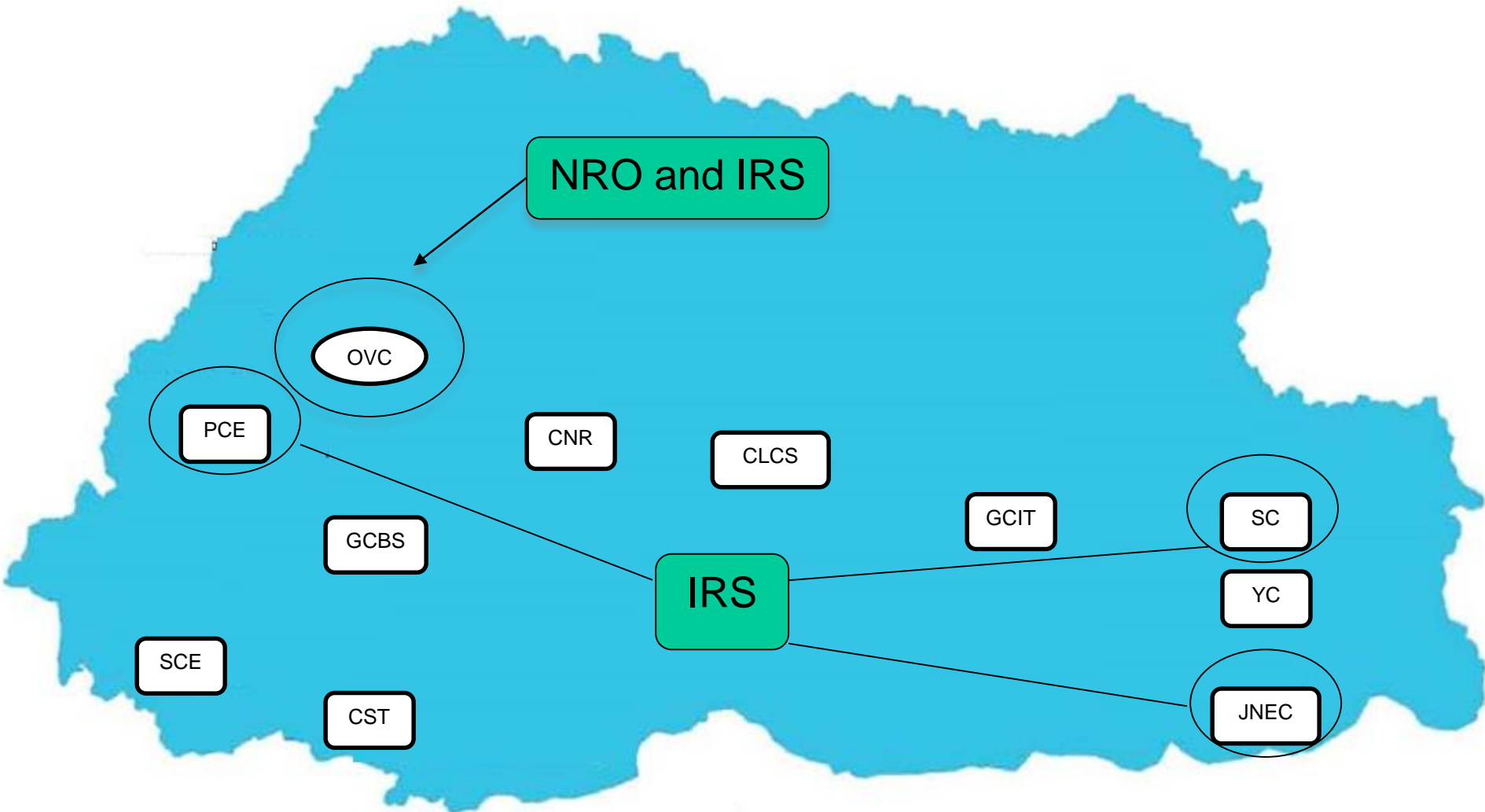


Eduroam & Bhutan

Eduroam

- Started in the Year 2016
- Project funded by TEIN
- One NRO and 4 IRS (Member Colleges)
- NRO at Office of the Vice Chancellor
- IRS at Sherubtse College
- IRS at Jigme Namgyal Engineering College
- IRS at Paro College of Education and OVC
- <https://eduroam.rub.edu.bt>

Eduroam Establishment



Identity Management at RUB

- ❖ No proper identity management available
- ❖ Different systems/services has different username and password
- ❖ There are no regulation for availing any educational services within the Campus except for the email.
- ❖ Existing wireless system uses WEP – almost all Colleges
- ❖ Centralized Authentication System at Three Colleges for only accessing Internet.
- ❖ OVC is using eduroam - very limited basis

Challenges

- ❖ Lack of knowledge / experience - identity management
- ❖ Equipment compatibility issues – For e.g: Dumb switches and wireless access point
- ❖ Human Resource Development for both configurations and user level required
- ❖ Users awareness needs to be created
- ❖ ICT acceptable use policy – not available
- ❖ No segregation based on the authorized users – Administration, Authorization and Authentication
- ❖ Issue on the sufficient Internet Bandwidth at the Colleges / Host

Future Plan

- ❖ NREN will be available connecting all the Colleges and others
- ❖ Proper and approved identity for all staff and students with single authentication system
- ❖ Distributed delivery of services through eduroam within Royal University of Bhutan
- ❖ Availability of eduroam for other colleges (Consistency)
- ❖ Proposal for three more colleges (CST,SCE and CLCS)
- ❖ Issue eduroam username and password to one Ministry (MoIC - DITT) – which ICT policy to apply?

Thank You