

Laos Education & Research Network in 2017-18

NREN: LERNET

Country: Lao People Democratic Republic (Laos)

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About Laos



Population (2017)

GDP (International Monetary Fund)

Higher Edu. University
Colleges

ICT Investment/Awareness for Edu.

ISP

Internet Penetration

Internet in Hi. Edu. Students

Laos

7.02 Million

31 p/Km²

1.700 US\$

5

99

Low

5

20 %

100% (Smart P.)

Singapore

5.61 Million

8000 p/Km²

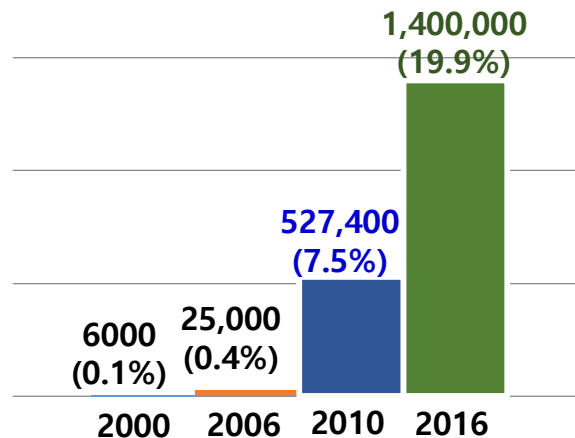
53.000 US\$

Very High

-

100%

>100%



Internet Penetration in Lao PDR



Organization



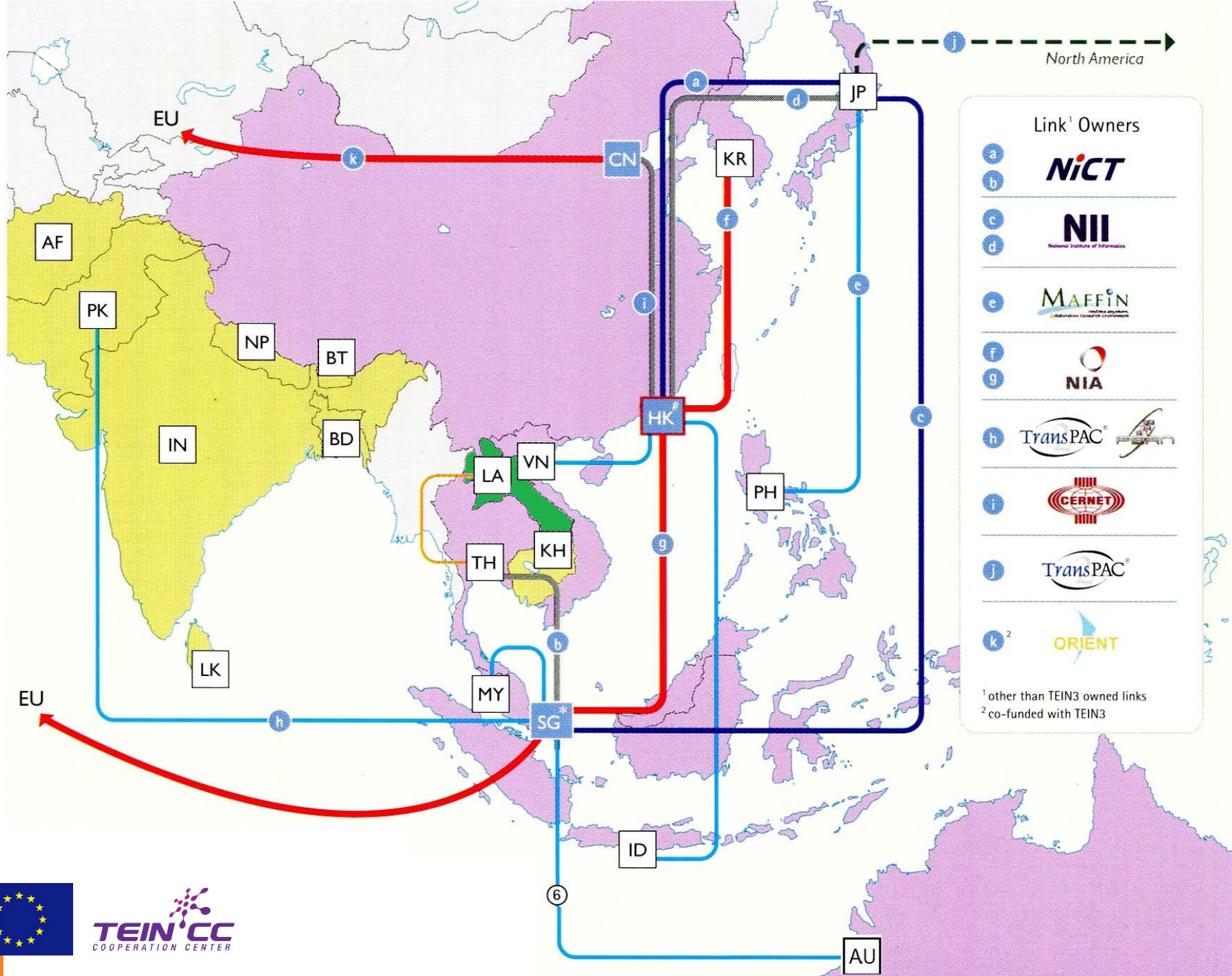
- ❖ **NREN** : Laos Education and Research Network (**LERNET**)
It is under consideration by Ministry of Education and Sports for its Term Of Reference (TOR)

- ❖ Number of member institutions(connected to in REN) :
 - There have not been an official REN
(**National University Of Laos (NUOL) is as an Initiate LERNET Representative**)

 - However, the number of higher education institutions
 - 5 Universities
 - 99 Colleges
 - If it is connected, Universities and Colleges in Vientiane Cap. City will be the first group

- ❖ In present, ADB has supported the Link among 4 Universities + MOES
(NUOL is as a Hub to Internet)





Link¹ Owners

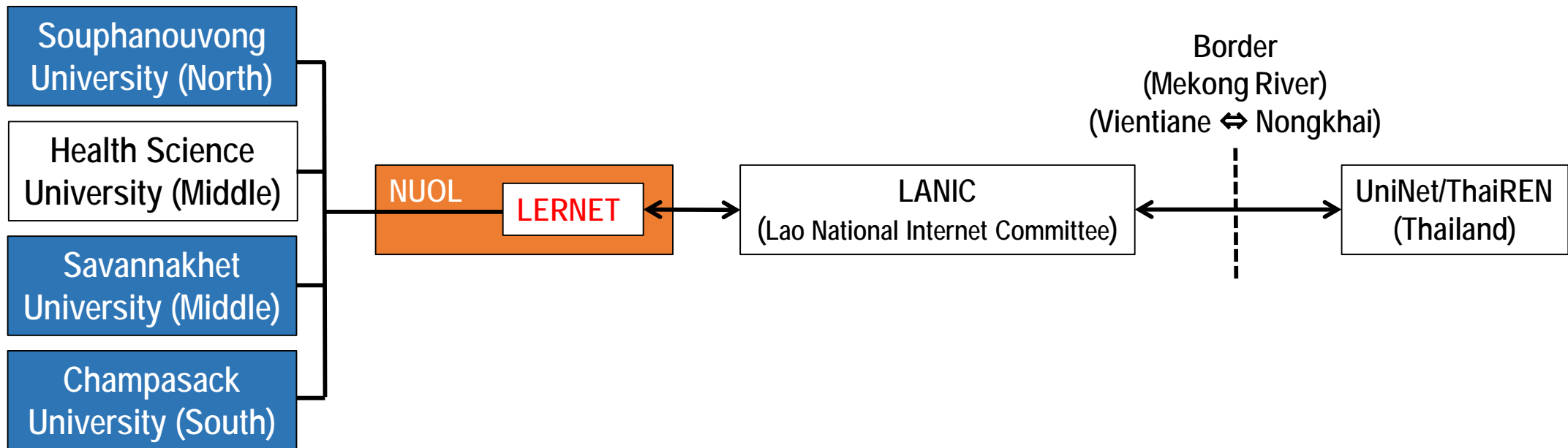
- a **NICT**
- b **NII**
National Institute of Informatics
- c **MAFFIN**
Malaysia Research and Development Collaborative Network Environment
- d **NIA**
- e **NIA**
- f **NIA**
- g **NIA**
- h **TransPAC**
- i **CERNET**
- j **TransPAC**
- k² **ORIENT**

¹ other than TEIN3 owned links
² co-funded with TEIN3

Backbone and Network



- ❖ **Backbone : Only The Physical Link from NUOL to UniNet (Thailand), but no Application.**



- ❖ **Network Update :**
 - **ADB has supported the Link among Universities**



Activity update

❖ Plan (Basic Idea)

- Continue process in LERNET Establishment (**It is during Apply to MOES**);
- Dissemination Workshop for TEIN / Asi@Connect / LERNET Roles and Its Utility (Regional and International Case).

❖ Long plan

- Convince Government for ICT Investment for Development, Including of both Infrastructure and its Utilization / Application;
- Convince Ministry and Higher Education Institutions in Laos, aware with ICT supported Educational / Research;
- Motivate Lecturers and Researchers to Utilize Network based RE activities
- The Research Capability in Country, ... Then the Collaboration will come,
- ...

❖ Notice: How to realized the Plan



Conclusion

❖ Present Status

- Since the Status of less Development of Laos, Education and Research have low Readiness or Need to Use Network, then Low Investment in ICT for RE;
- Up to present, LERNET (Laos NREN) has been not official Establishment, there has been just physical Linked from NUOL (LERNET hub) through ThaiREN/Uninet to TEIN, but not in practical Use;
- LERNET is a kind of an Organization, It needs certain Budget support for Development and Operation, therefore LERNET need national budget support.
- Establishment of LERNET is applied to Laos Ministry of Education, for its Approval

❖ Future

- NUOL might be acted as LERNET, but It is needed the Nomination Agreement from Government level (Ministry of Education);
- LERNET will be indirectly formed by other projects;
- NUOL is just a Initializer of Laos REN, then Expand,
-





The development is depended on country condition,
Country by country,...
Laos has its real conditions,
LERNET also,...

Thank you !!