International Workshop and Seminar on United Nations Global Geospatial Information Management "The Data Ecosystem for Sustainable Development"

17-22 October 2019 Deqing, Zheijiang, China

Importance of capacity building and education towards strengthening spatial data infrastructure in Mongolia





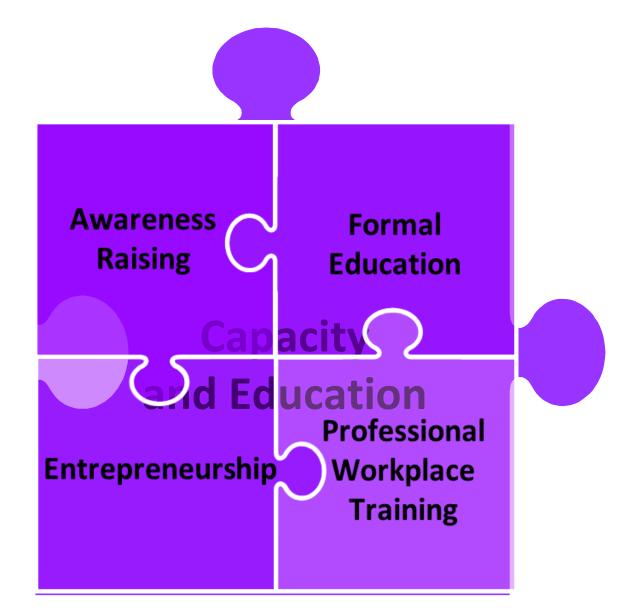


Agency of Land Administration and Management, Geodesy and Cartography (#ALAMGC):

Specialist: Myagmarjargal Mendbayar

Context

- Brief introduction to Mongolia
- Priorities
- Challenges
- Conclusion
- References



Brief introduction to Mongolia



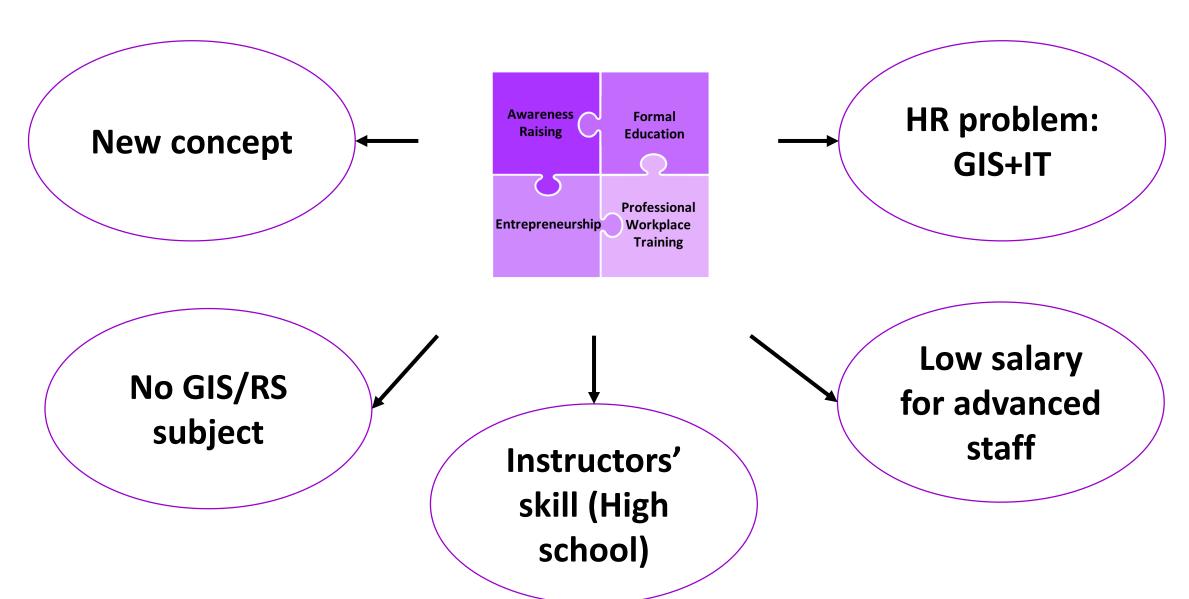
- Area: 1,564,116 sq.km
- Population: 3,256,176
- Official language: Mongolian
- Монгол Улс



Priorities

- Raise awareness of GIS from early age
- Increasing number of students, have interest in geospatial science
- Developing higher education program curriculum
- MOOC and workplace training

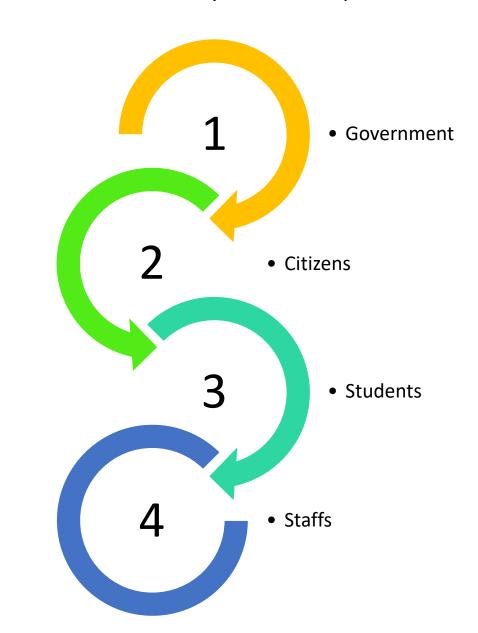
Challenges



Top 10 jobs in next 5 years in Mongolia

- Marketing manager
- IT engineer
- Chef
- Building engineer
- Civil engineer
- Plastic surgeon
- Mining engineer
- Architect
- Geologist
- Project manager

Stakeholders we really need to cooperate



Source: "Daily News" newspaper

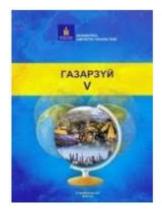
A 73 sac as Deba 25 and a sac as a sac

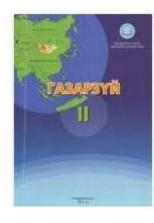
Улаан лооль, өргөст хэмх тарихын тулд бид хулэхих барьдаг. Та нар хүлэмихид орх үзсэн үү? Тэгвэл хүлэхихийн хийн нөлөө нь үүнтэй төсөөтэй үйл явц юм. 2005 онд дэлхийн температур хэвийн хэмжээнээс 1.3°С-ээр измэгдихээ. Уур амьсгал дулаарах нь ямар үр дэгөвөрт хүрэх вэ? Зарим хишээ дурдъв. • Түйлуудын мөс хайлсмаас болоод дэлайн усны түшэн нэмэгдэнэ. Үүнээс болоод арэг орчмын гахрууд усанд автах асул нүүрлаж байна. Зураг 4.19 дээр ийн газруудыг үзүүлжээ. • Уур амьсгал дулаарсчаас болж зарим газар хуурайших, целийн талбай номэгдэх болжээ.



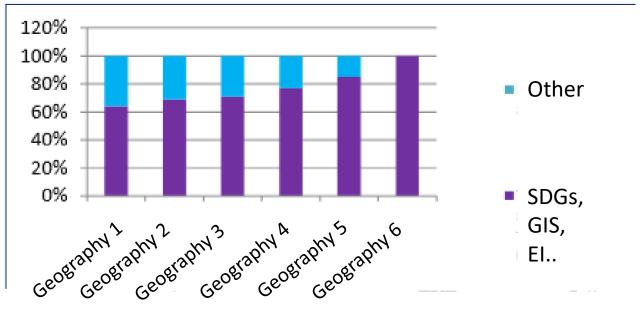


"INTEGRATION OF SDGs INTO GEOGRAPHY TEXTBOOKS"

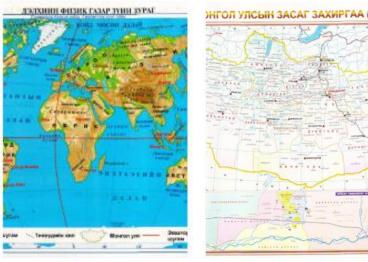


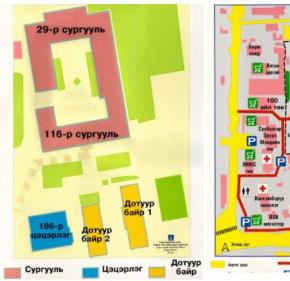






Braille maps for special children

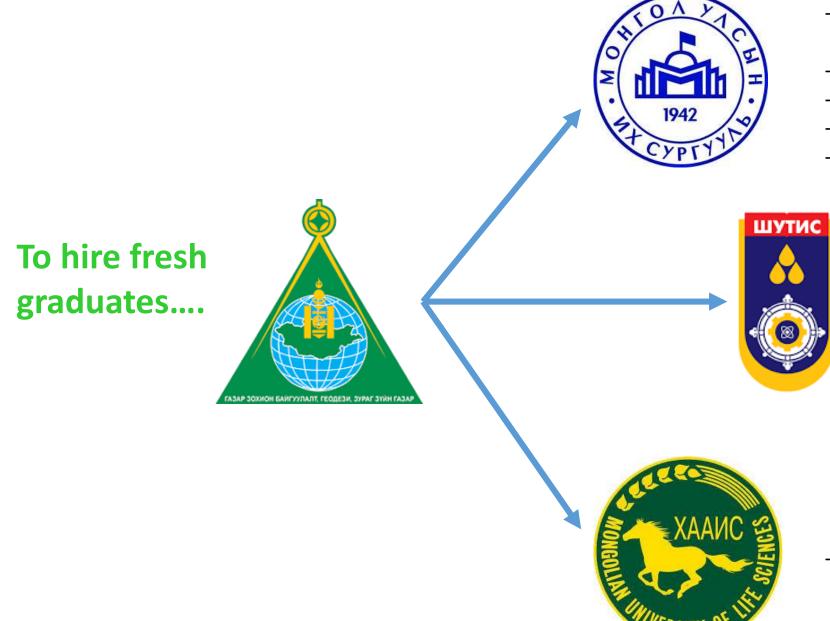








Leave no one behind!

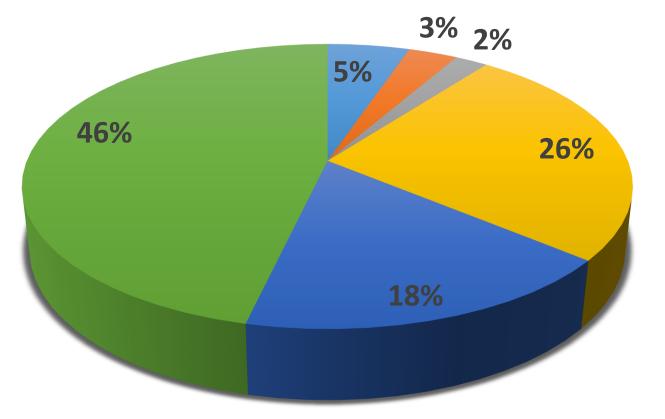


- REMOTE SENSING AND GEOGRAPHIC INFORMATION SYSTEM
- URBAN PLANNING
- LAND MANAGEMENT AND CADASTRE
- GEOLOGY
- GEOGRAPHY

- **GEODESY**
- LAND CADASTRE

- LAND MANAGEMENT

Total graduates (Remote sensing and GIS)



Major	Year	Number of graduates
GIS and Remote Sensing	2014	17
	2015	23
	2016	23
	2017	17
Remote sensing	2018	18
	2019	11
Total		109

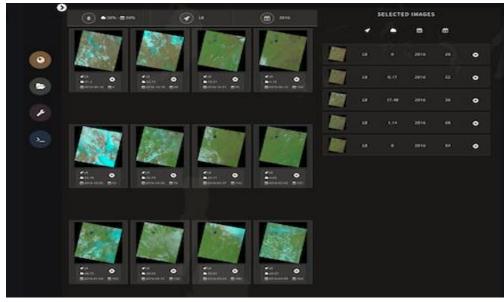


Other sectors

Source: National University of Mongolia

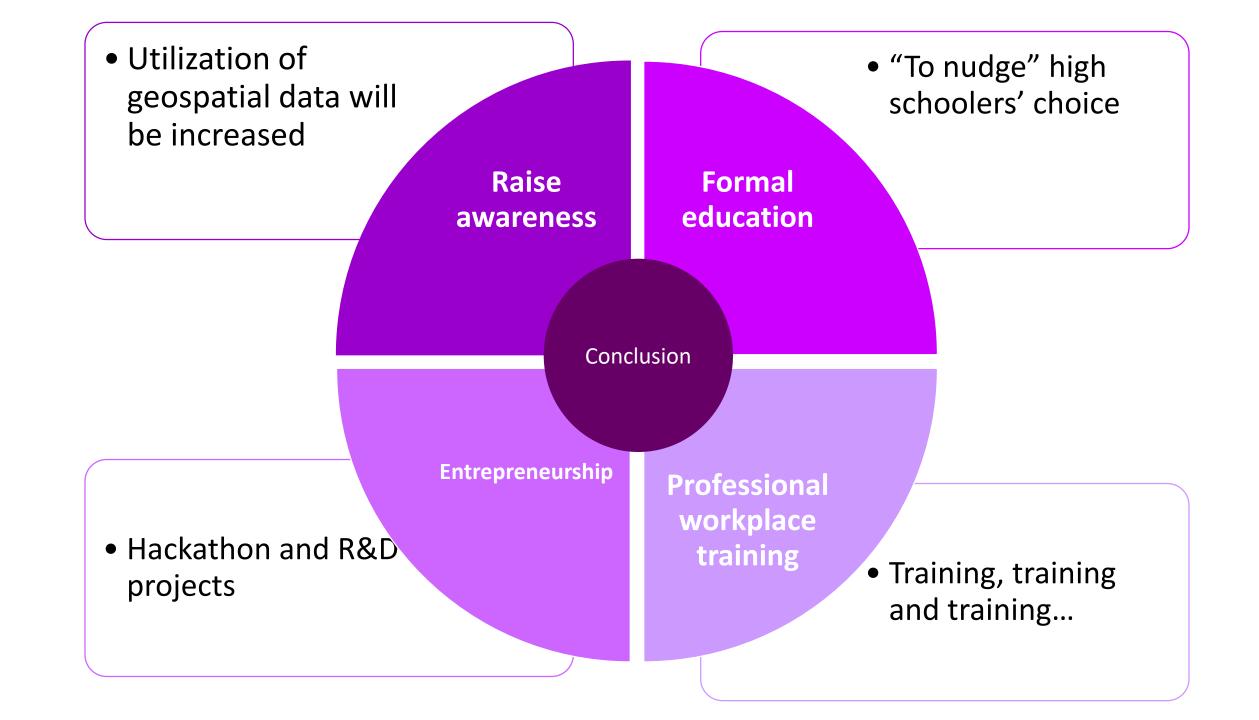
Workplace training











"I'M STILL LEARNING."

Michelangelo at age 87

References

- "Daily News" newspaper https://ikon.mn/opinion/19ke
- Uranchimeg G., Batchuluun Ye., Tsogbadral Kh., Ser-Od Ts., Munkhtsetseg., MNUE "Integration of SDGs into Geography textbooks"
- "Survey of graduates in remote sensing and geographic information institute" Bolorchuluun Ch., Tsogtdulam M., NUM-School of Arts and Sciences

