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# SMART SURVEYORS FOR LAND AND WATER MANAGEMENT CHALLENGES IN A NEW REALITY



**e** WORKING WEEK 2021  
**20-25 JUNE**

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Paper ID-11084

Latin America Land Administration Network (LALAN), Covid19 and SDG 4  
Monday, 21 June at 10:30—12:00 CEST

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## Context



**FIG WORKING WEEK 2019**  
22-25 April, Hanoi, Vietnam  
"Geospatial Information for a Smarter Life and Environmental Resilience"

### Establishment of Latin America Land Administration Network (LALAN)

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**FIG WORKING WEEK 2019**  
22-25 April, Hanoi, Vietnam  
"Geospatial Information for a Smarter Life and Environmental Resilience"

#### Need for establishment of LALAN

- Land administration only as a separate subject in some BSc and MSc programmes in Latin America countries.
- The public sector of land administration was not as good as it could be, but all participants acknowledged that some international projects
  - ESPE University - Ecuador;
  - Universidad de San Carlos De Guatemala;
  - Universidad Distrital - Colombia;
  - Universidad Politécnica De Valencia - Spain;
  - Universidad de Campinas - Brazil
  - Universidad San Martín De Porres, Universidad Católica San Pablo - Peru.

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November 2018 **Workshop LALA LADM+** (ESPE, ITC, Kadaster)

Representatives from **Guatemala (5), Colombia (3), Brazil (2), Suriname (1), Peru (3), Bolivia (1) and Ecuador (40-60 in different time periods); Europe Spain (1) the Netherlands (4)**

**Activities proposed** for coming period:

- Articulation of the LALAN (**statement**)
- **Network and Secretariat** (management, activities)
- **Short courses** (train the trainers approach)
- **Education and knowledge training and sharing** (improve curriculum)



## Initial situation with Covid19 arrival

**advanced use of IT technologies** many people and organizations (not all)

**adopted to work from home** fast

**effect on the work, education and networks**

**implementation of SDGs came under question**

**SDG 4: ensure inclusive and equitable quality education and promote lifelong learning opportunities for all**

???????

*The objective LALAN:*

*perform activities that can **support capacity development and sharing knowledge** in both fit-for-purpose and responsible land administration*

*within the Latin America Land **Administration Network of education and research institutions***



## Lessons learned LALAN Covid19 and SDG 4

**LALAN planned activities** (workshop on sharing experience and knowledge of developing curriculums in the domain land administration)



**postponed for better times** (when traveling and meetings would come to normal again)

**SDG 4 Goals** (ensure inclusive and equitable quality education and promote lifelong learning opportunities for all)



came **under question**

[UNESCO Technical Cooperation Group (2020) (UNESCO, 2020) ]

many long-term **educational changes** will continue after COVID-19:

**Distance learning and Homeschooling** (Internet as a didactic resource has not been enough to consolidate the participation of the members of the network)



increasing the **student-teacher ratio**

extensive use of the **Internet as teaching resource**

**difficulty of sharing time** (attention to activities)

**avoided field work**



## Lessons learned LALAN Covid19 and SDG 4

### SDG 4.3, SDG 4.4 and SDG 4.5:

**equal access** for all women and men to affordable and quality technical, vocational and tertiary **education has improved???**

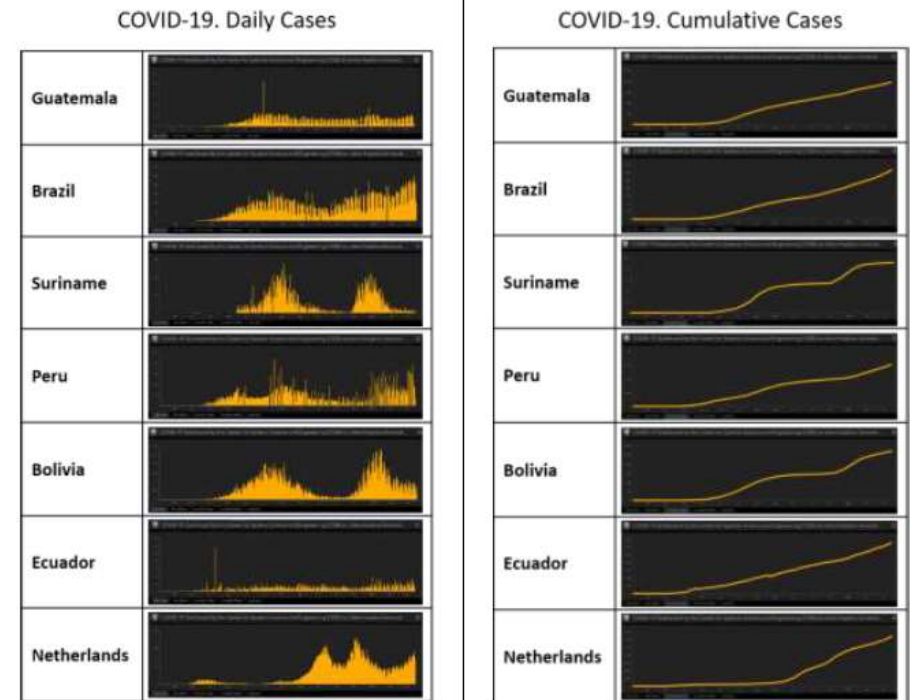
**increase or decrease in the number of students????** technical skills for suitable employment

**gender disparities in education** and guarantee equal access to a high level of education for vulnerable people, including indigenous peoples????

### SDG 4, SDG 7, SDG B and SDG C:

**lack of certainty to ensure that all students acquire the knowledge and skills** necessary through education for sustainable development and sustainable lifestyles

The **tendency to increase the number of infections** by COVID-19 has not been controlled





## Conclusions

The three main characteristics of risk knowledge in considering the COVID-19 a biohazard are in high level of:

Rein and Klinke in Fra Paleo (2015)

**Complexity: difficulty in identifying and quantifying causal links** between a multitude of potential candidates and specific adverse effects

**Scientific uncertainty: limited knowledge about the origins and development** of the pandemic

**Socio-political ambiguity of the perception** manifested in the student survey.

**Causes for the lack of integration of the LALAN network**



## Thank you for your attention

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