

RAINSAT

Improved flood forecasting in African cities

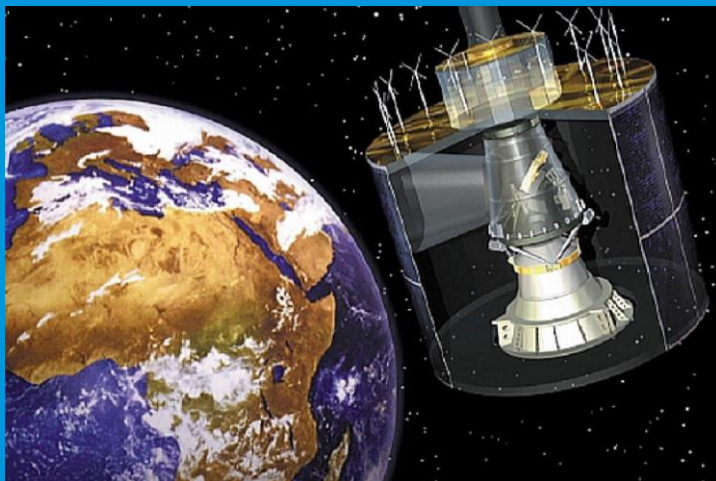
African cities face;

- rapid **urbanization** with poor drainage,
- more frequent high intensity **rainstorms**,

resulting in frequent **urban floods**, and even increasing flood risks in the future.

Early warning is effective in disaster risk reduction, but

- there is a **lack of weather observations** from radar and meteo-stations.



KNMI and HKV disclose through RAINSAT;

- every 15 minutes,
- at $\sim 3 \times 3$ km spatial resolution,

satellite rainfall **observations**

- until 45 minutes ago

nowcasting based on neural networks

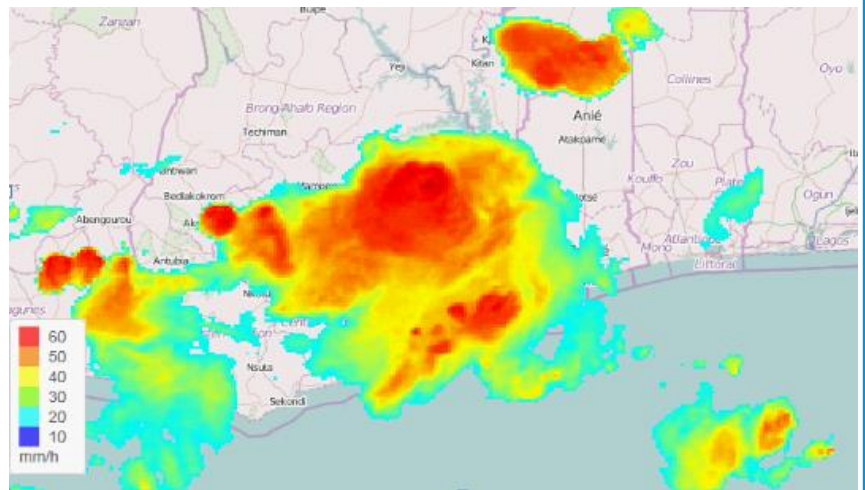
- up to 4 hours ahead

RAINSAT offers;

- a robust, **short-term** solution
- timely **warning** messages

RAINSAT is;

- **independent of ground data**
- **transboundary**
- **web-based**



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