

Techniques for assessing damage and loss: tools to support mainstreaming

Information Communication Technology and Disaster Risk Reduction Division
UNESCAP

Assessing damage and loss

Three key questions

- How much is at risk?
- How much was lost?
- How much likely to be lost in the future?

PRE-DISASTER RISK ASSESSMENT:

Hazard, vulnerability, Exposure

- Geospatial approach
- Probabilistic Approach

DISASTER LOSSES (PAST EVENTS)

Loss Accounting

- Recording impacts (damage and loss)
- Measuring Trends

DISASTER LOSSES (FUTURE RISK)

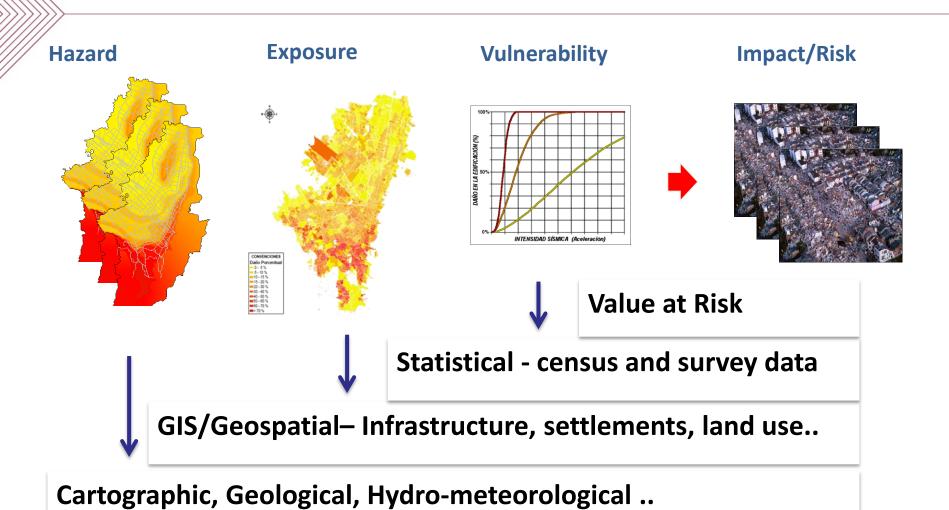
- Downscaling climate scenarios using geospatial approaches
- Probability of losses /Average Annual Loss

HOW MUCH IS AT RISK?

HOW MUCH WAS LOST?

HOW MUCH IS LIKELY TO BE LOST IN THE FUTURE?

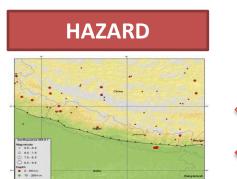
Drivers of risk assessment



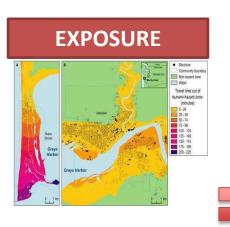
Source: Modified from Francis Ghesquiere, The Word Bank

Geospatial Data – Vector and Raster

Average Annual Loss (AAL)

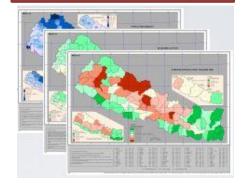




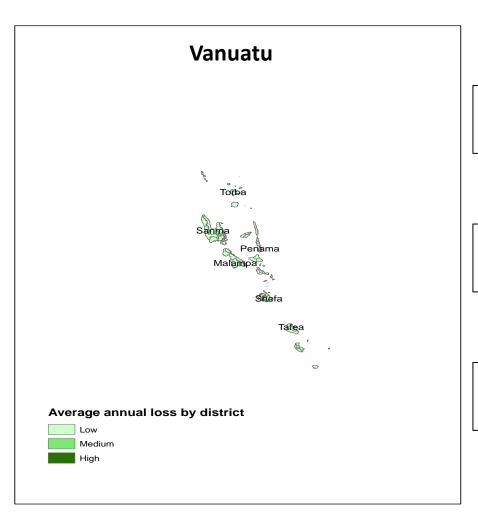




VULNERABILITY



Average Annual Loss (AAL) – Vanuatu Case Study

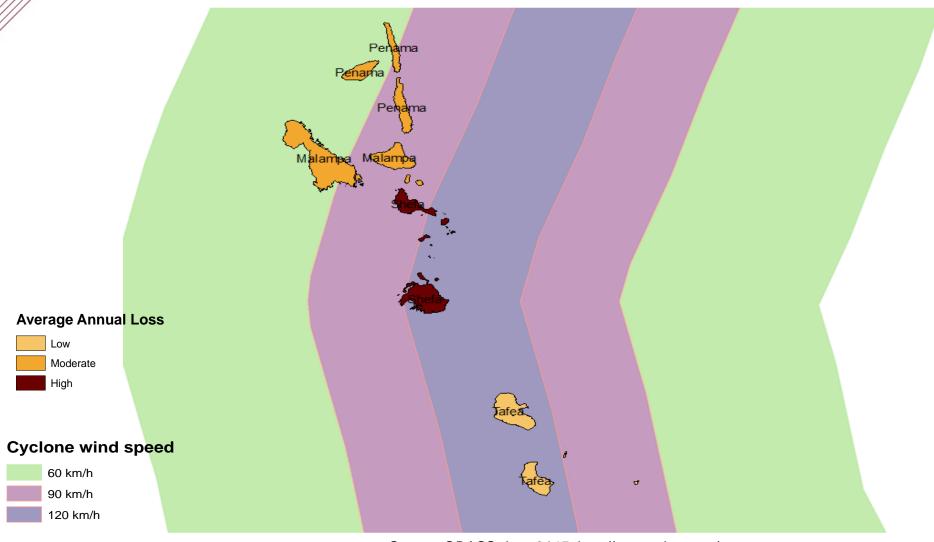


The Pacific Catastrophe Risk
Assessment and Financing Initiative

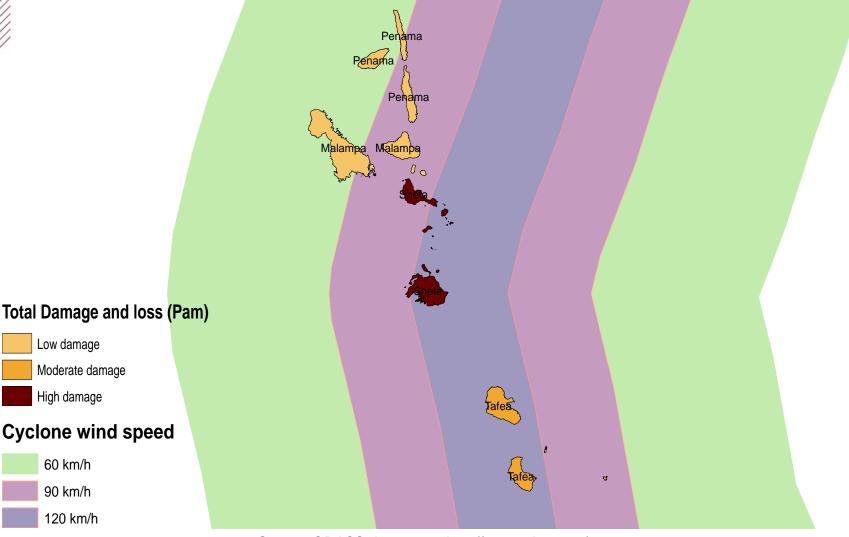
AAL in the Pacific countries for earthquakes and cyclones

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Average Annual Loss (AAL) - Vanuatu Case Study

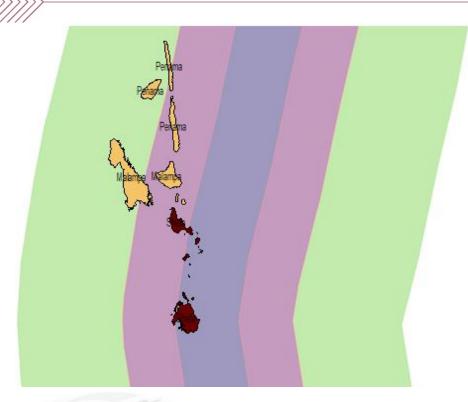


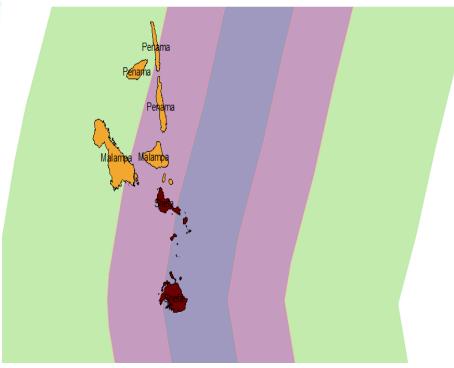
Average Annual Loss (AAL) – Vanuatu Case Study



Source: GDACS data, 2015, http://www.gdacs.org/resources.aspx

Average Annual Loss (AAL) - Vanuatu Case Study





预览已结束, 完整报告链接和二维码如下:

https://www.yunbaogao.cn/report/index/report?reportId=5_2410

