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INGEGNERIA

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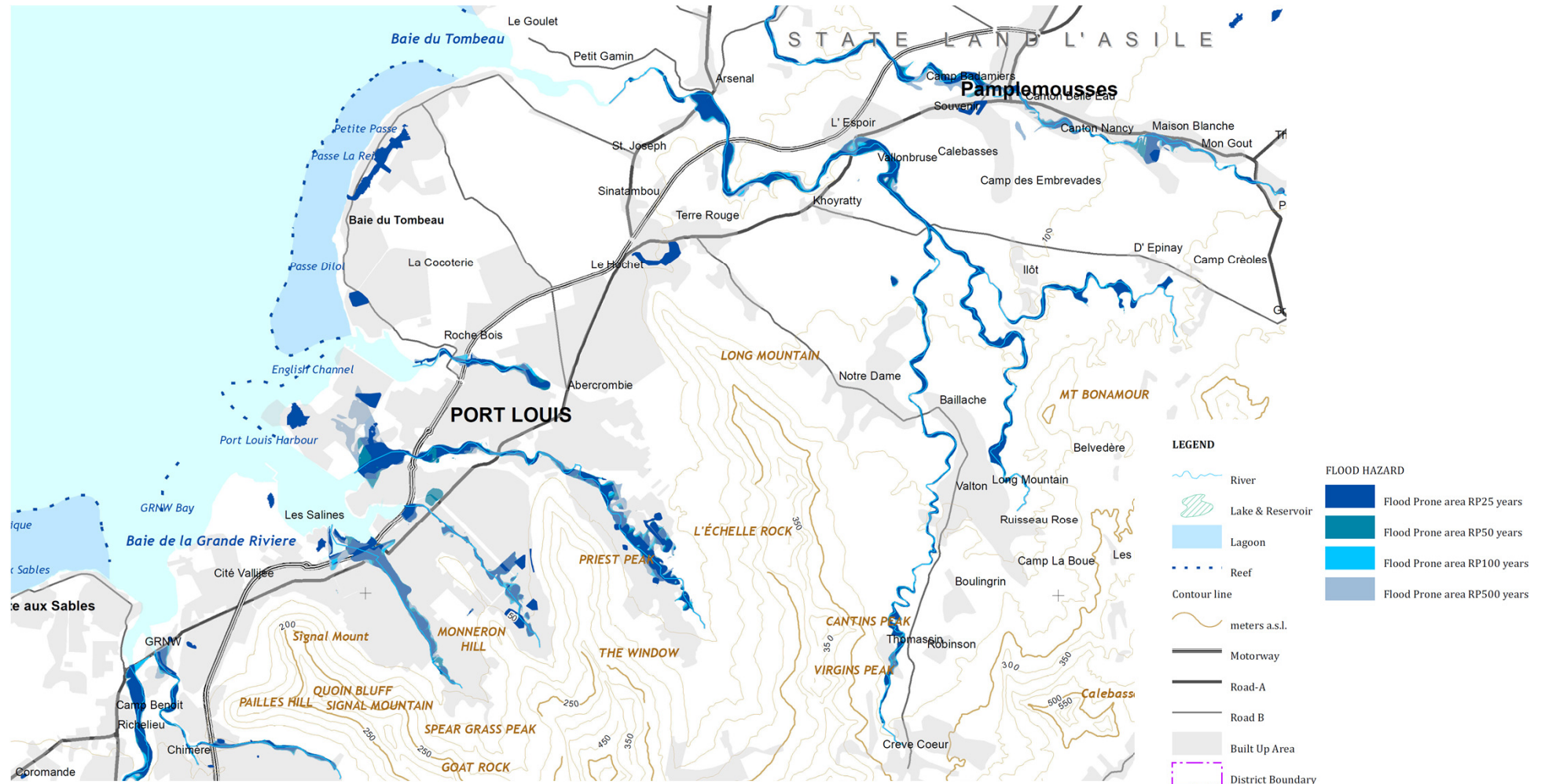
# Consultancy Service for the Development of an Inundation, Flooding and Landslide National Risk Profile, Strategic Framework and Action Plans for Disaster Risk Management for the Republic of Mauritius

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SGI Studio Galli Ingegneria

Capacity and validation workshop  
Swami Vivekananda International Convention  
Centre, Pailles, Mauritius, August 22-24, 2012

# Flood hazard maps and profile

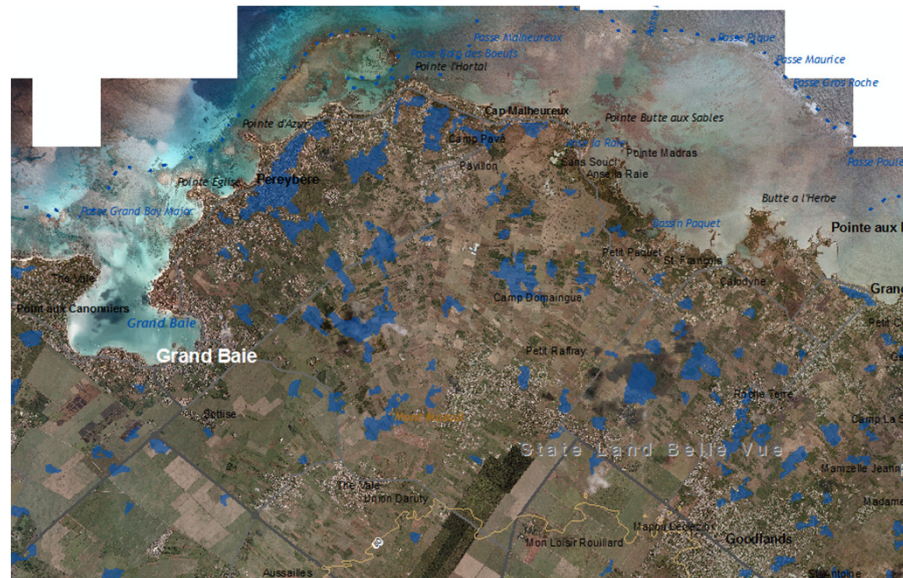
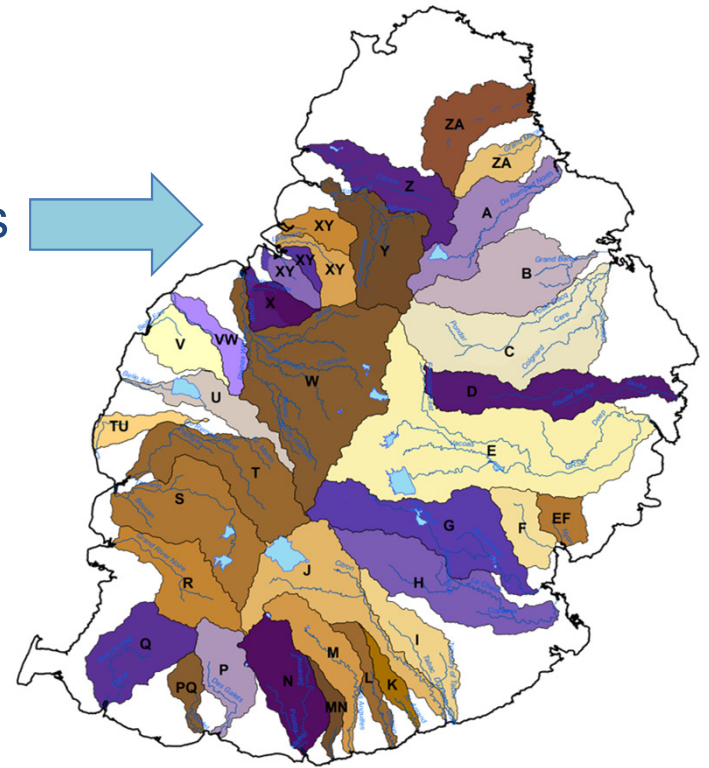
| FLOOD HAZARD LEVEL           |                                  |
|------------------------------|----------------------------------|
| Return Period of flood Event | Scenario                         |
| 25 years                     | Floods with a high probability   |
| 50 years                     | Floods with a medium probability |
| 100 years                    | Floods with a low probability    |
| 500 years                    | Extreme event                    |



# Flood hazard maps and profile

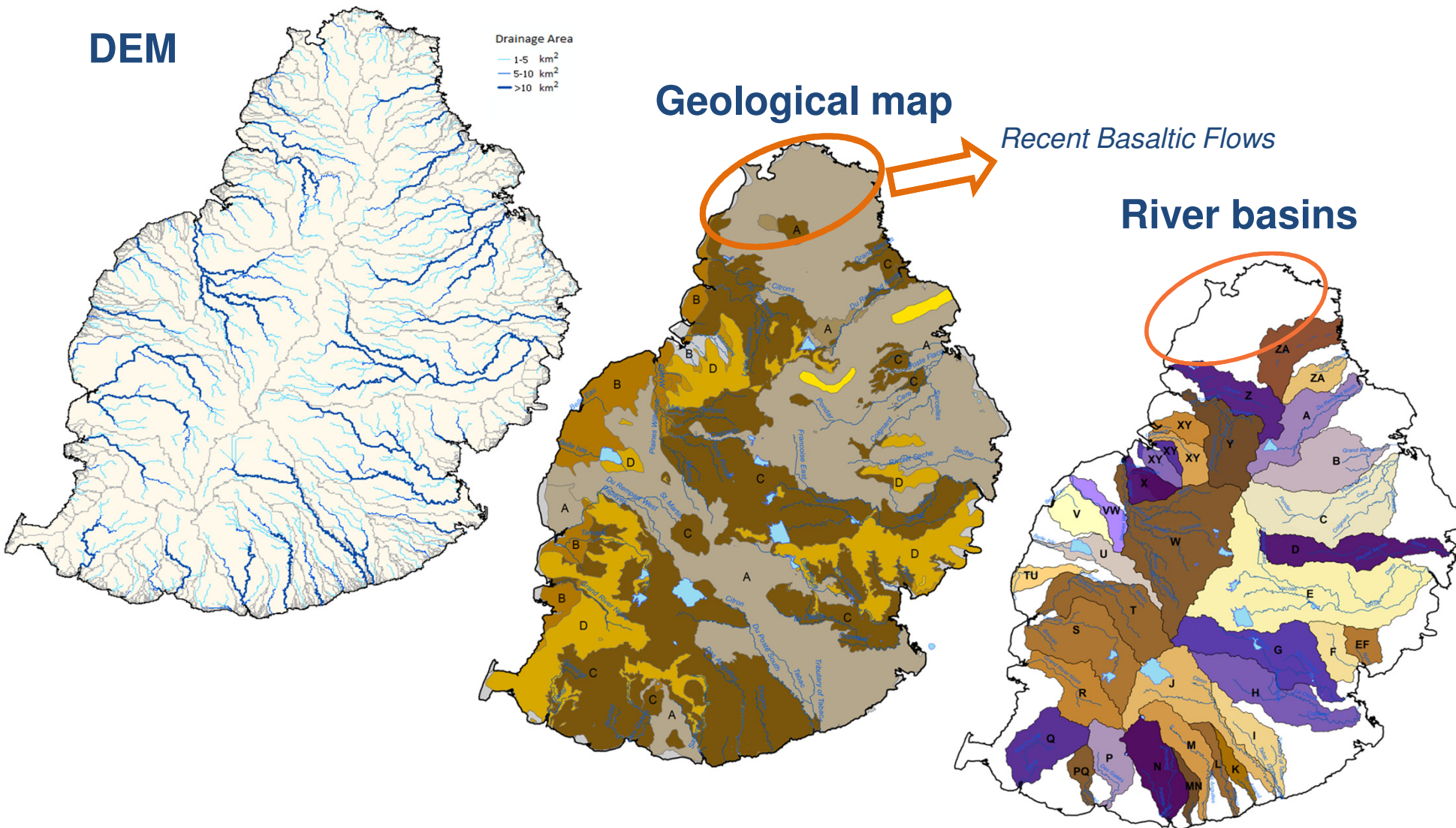
## Maps of flood hazard considering:

- river flooding area from hydrologic/hydraulic analysis
- historical flooded areas (from previous studies)
- lowlands area



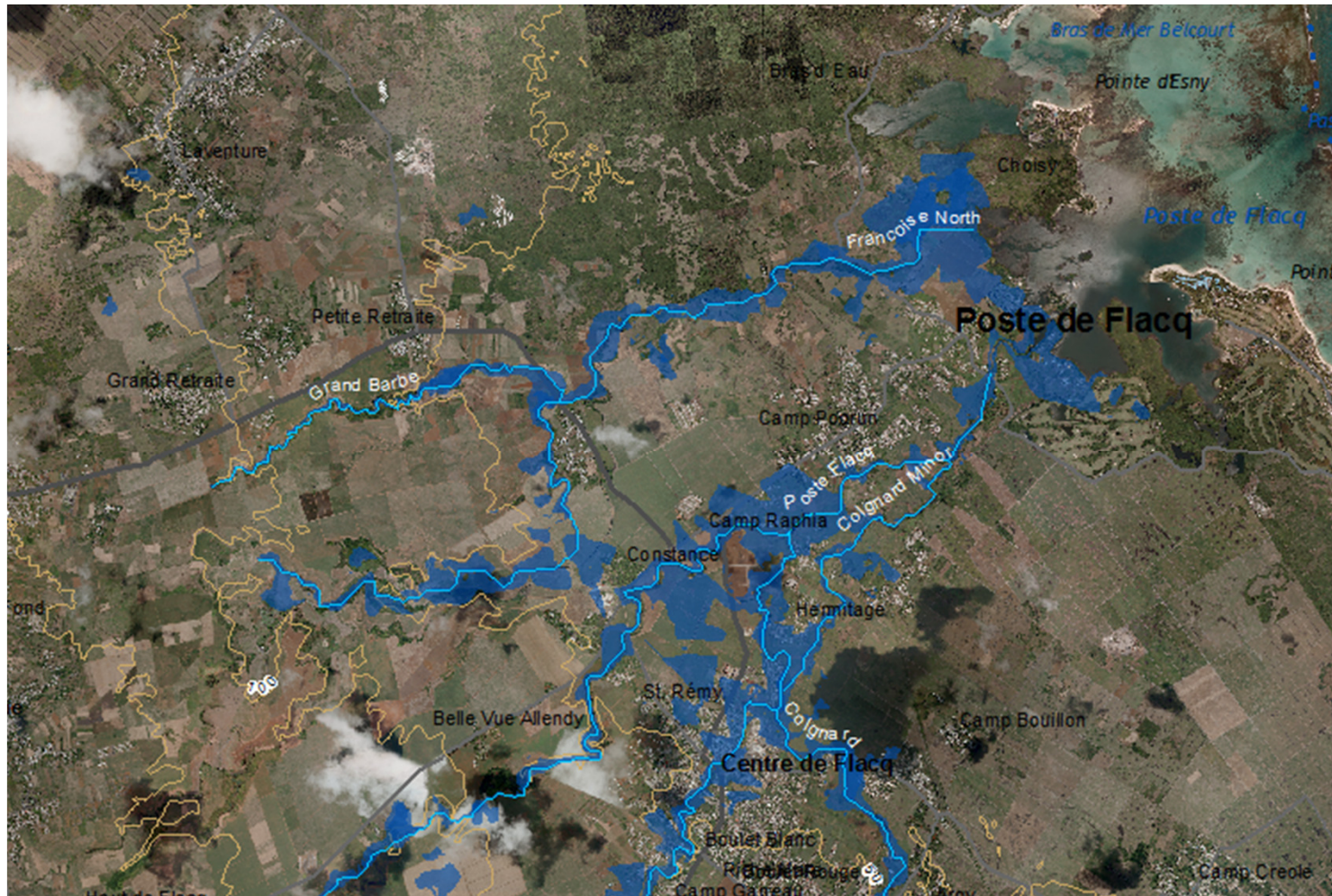
# Hydrological analysis

Hydrological analysis was carried out taking into account:



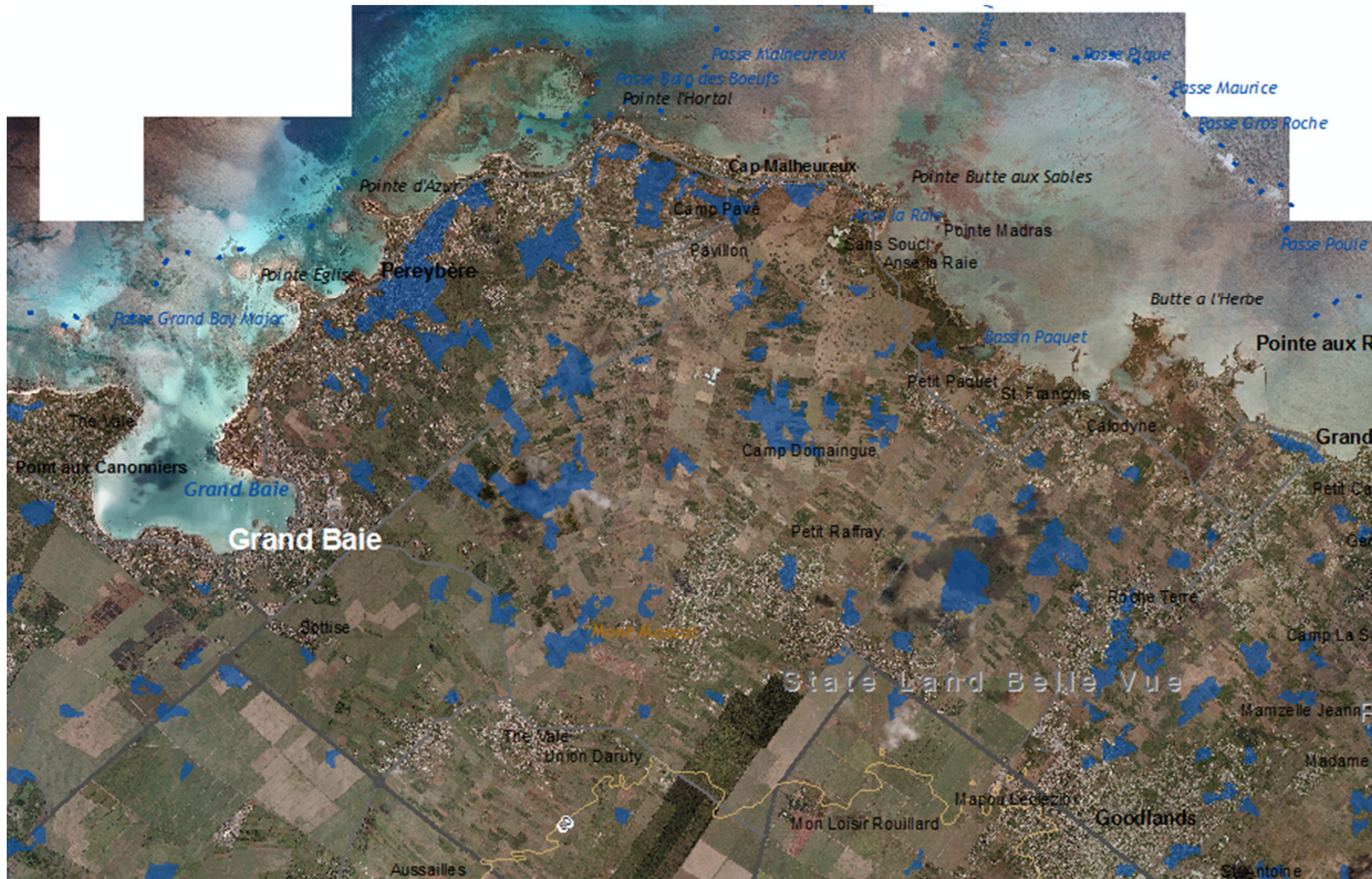
# Flood hazard maps and profile

Example of river flood area : *Poste de Flacq*



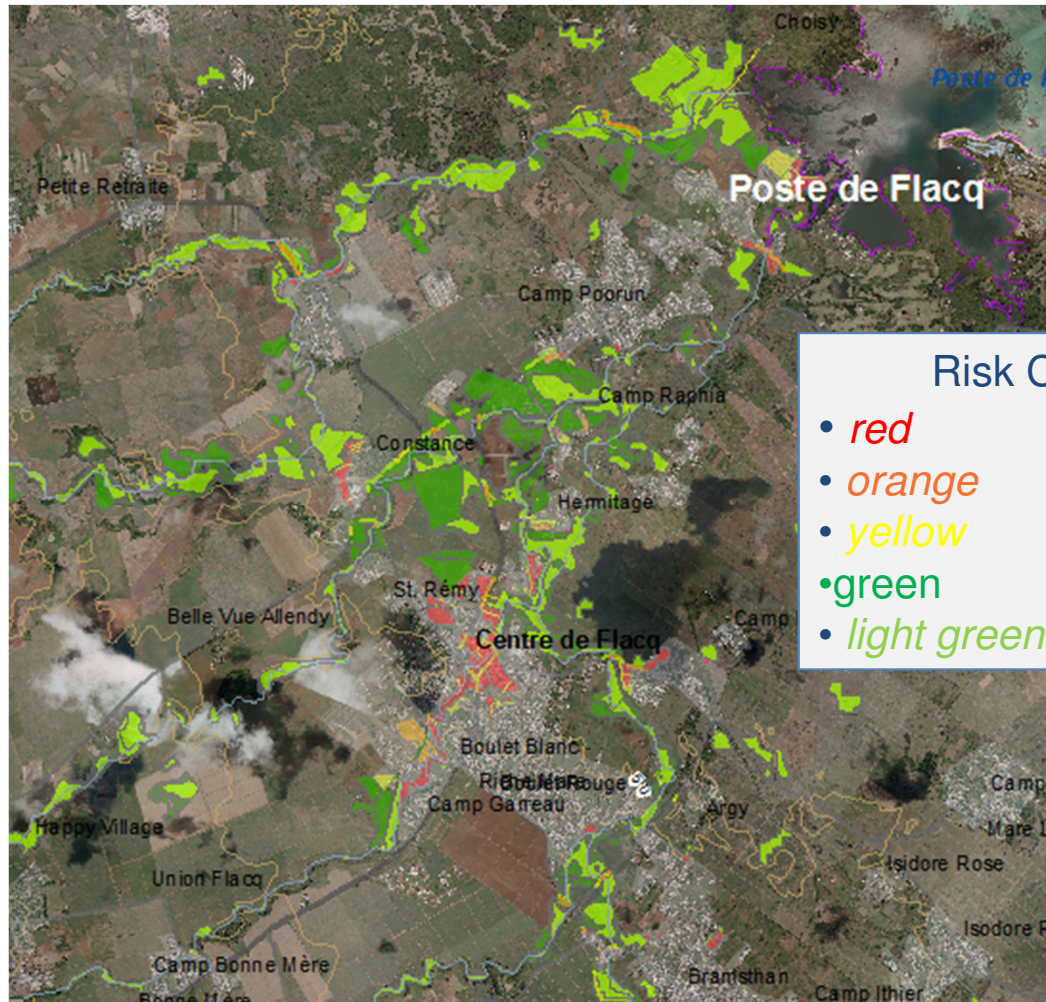
# Flood hazard maps and profile

Example of **lowlands** flooded area : *North plain*



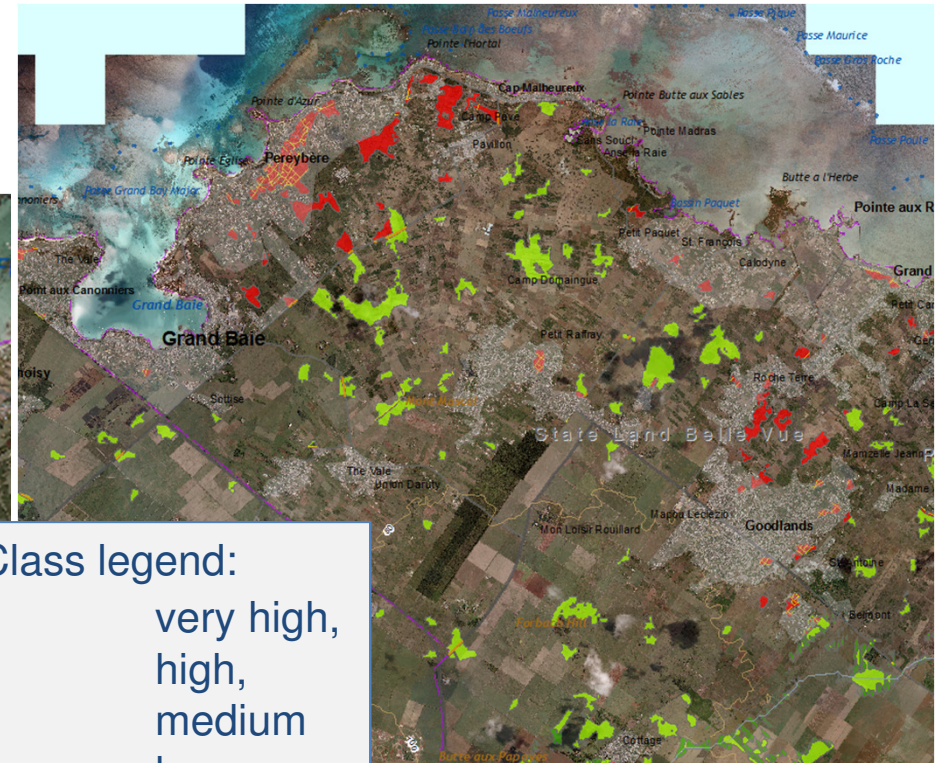
# Flood risk maps and profile

## Poste de Flacq



### Risk Class legend:

- *red* very high,
- *orange* high,
- *yellow* medium
- *green* low
- *light green* very low.



## North plain

# Thank you for your attention



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