

# **FLOOD MANAGEMENT and FLOOD RISK REDUCTION SYSTEM**

WEBINAR on WATER-RELATED DISASTER RISK MANAGEMENT IN  
CHANGING CLIMATE

November 22nd 2022

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# Floods:

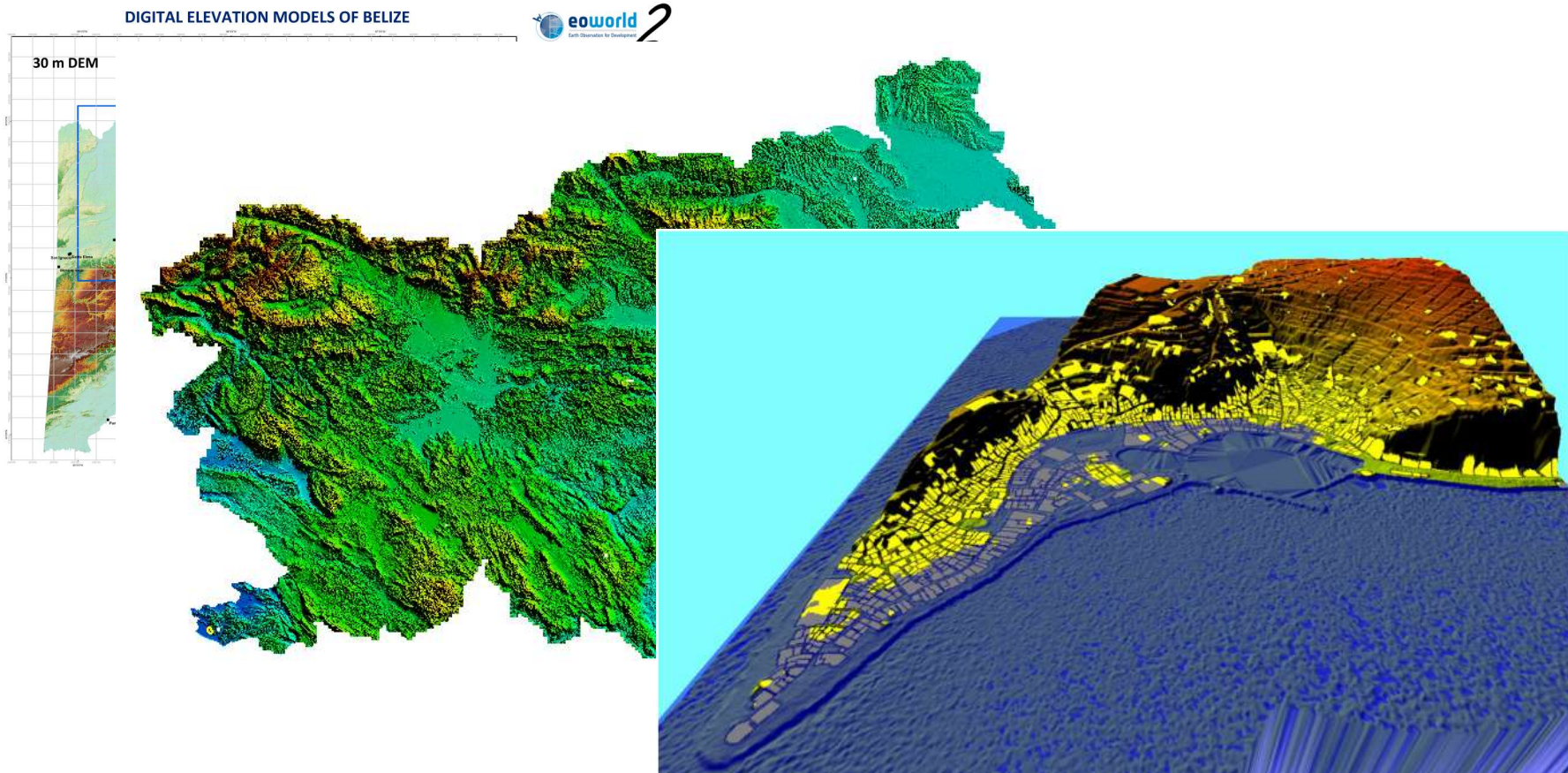


# Floods and flood management are a complex challenge

## 1. Topography/geology



LIDAR high resolution digital elevation model – Elevation for the nation – „GIVE US LIDAR“

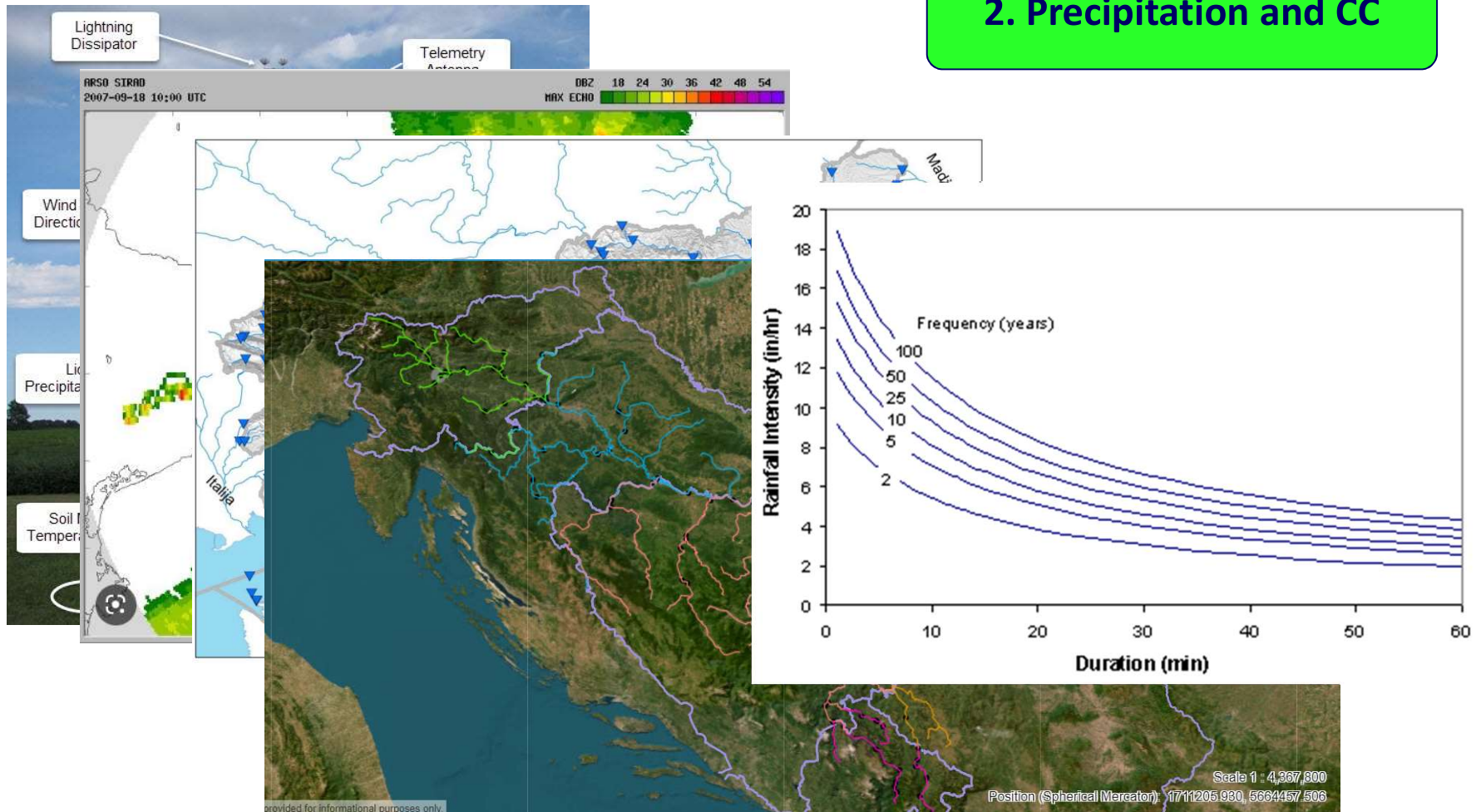


# Floods and flood management are a complex challenge



## 1. Topography/geology

## 2. Precipitation and CC

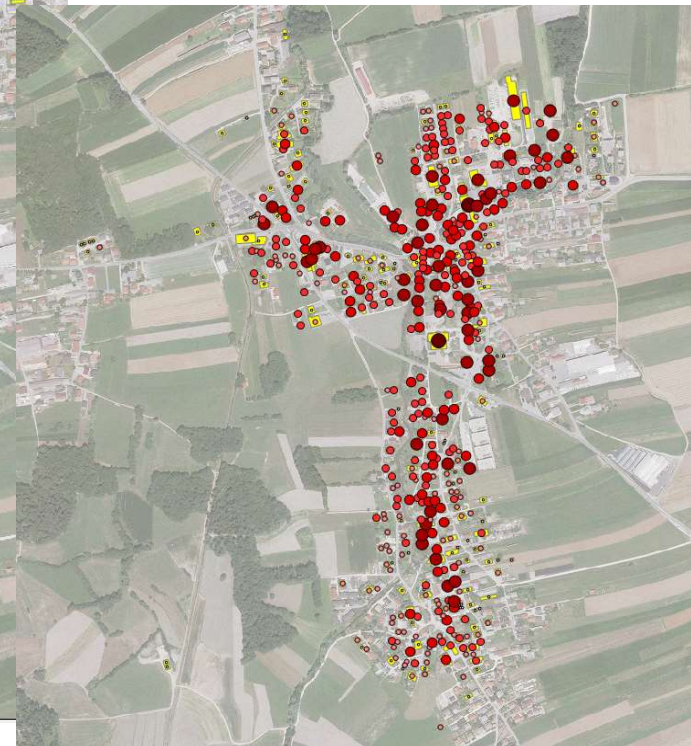
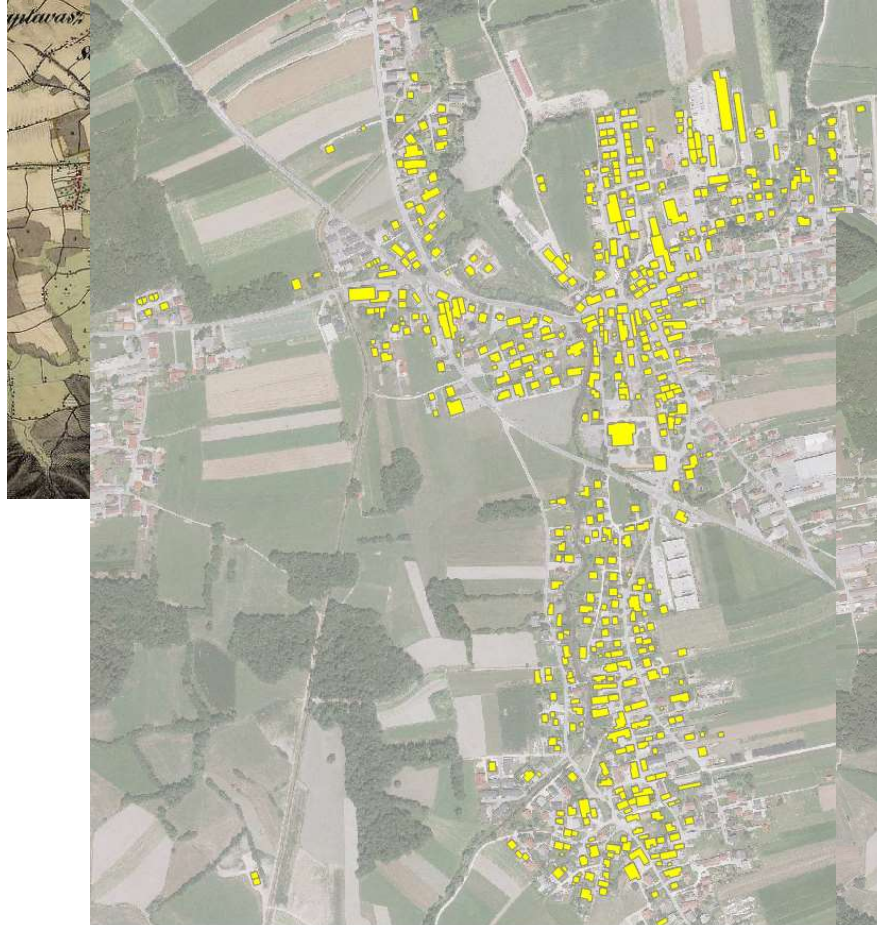


# Floods and flood management are a complex challenge

1. Topography/geology

2. Precipitation and CC

3. Vulnerability/land use



# Floods and flood management are a complex challenge



1. Topography/geology



2. Precipitation and CC

3. Vulnerability/land use

4. Education/knowledge



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1. Topography/geology



2. Precipitation and CC

3. Vulnerability/land use

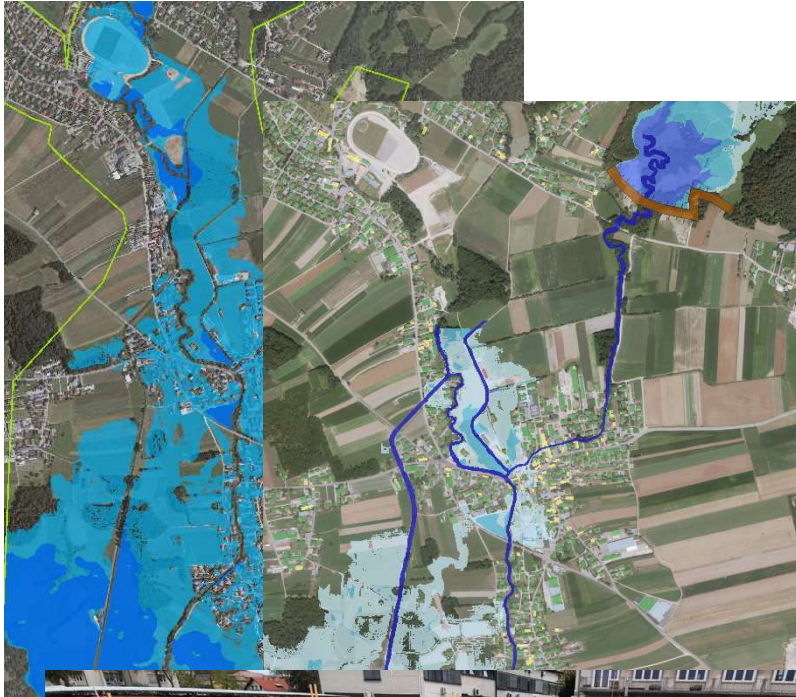
4. Education/knowledge

5. Infrastructure



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1. Topography/geology



2. Precipitation and CC

3. Vulnerability/land use

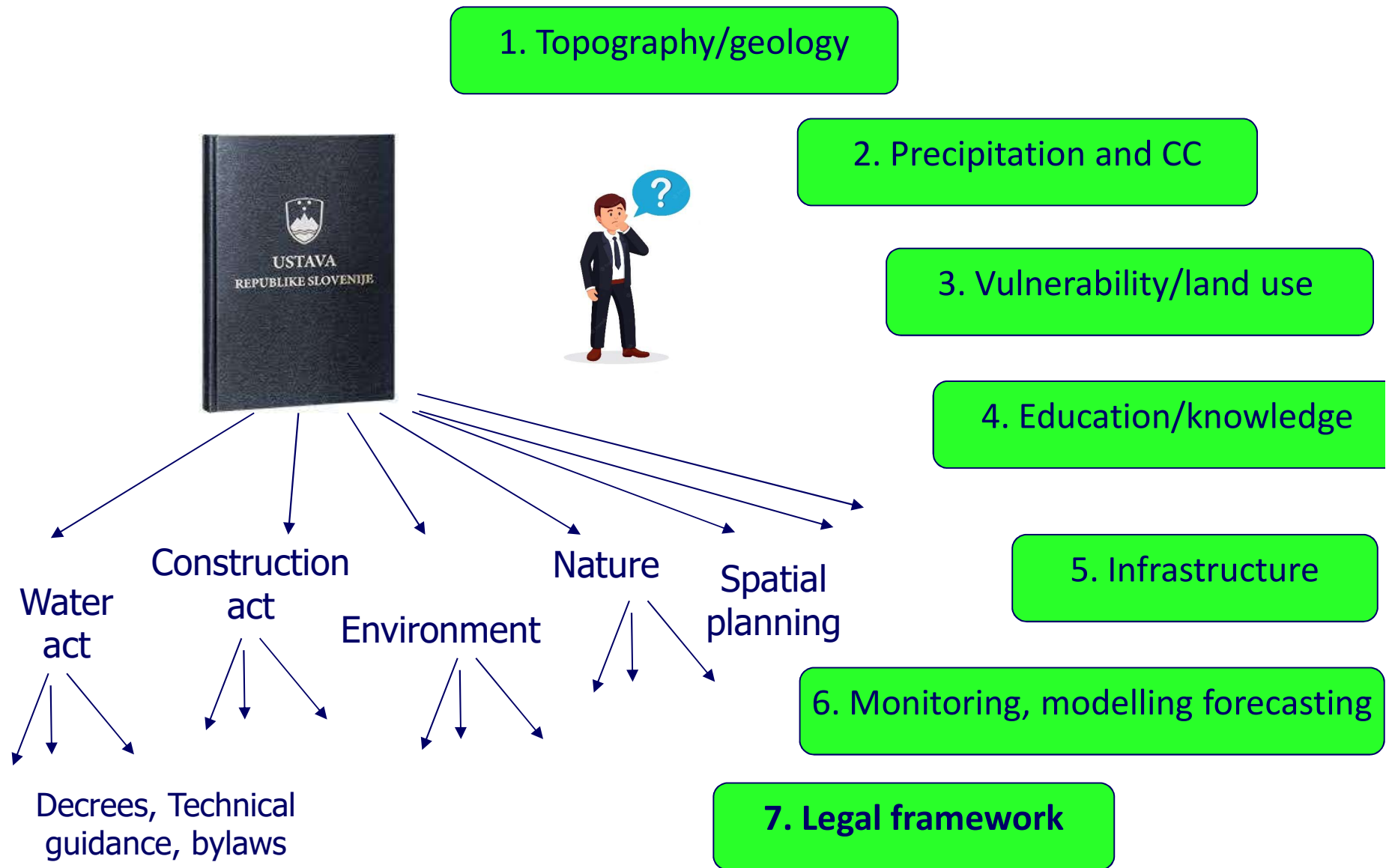
4. Education/knowledge

5. Infrastructure

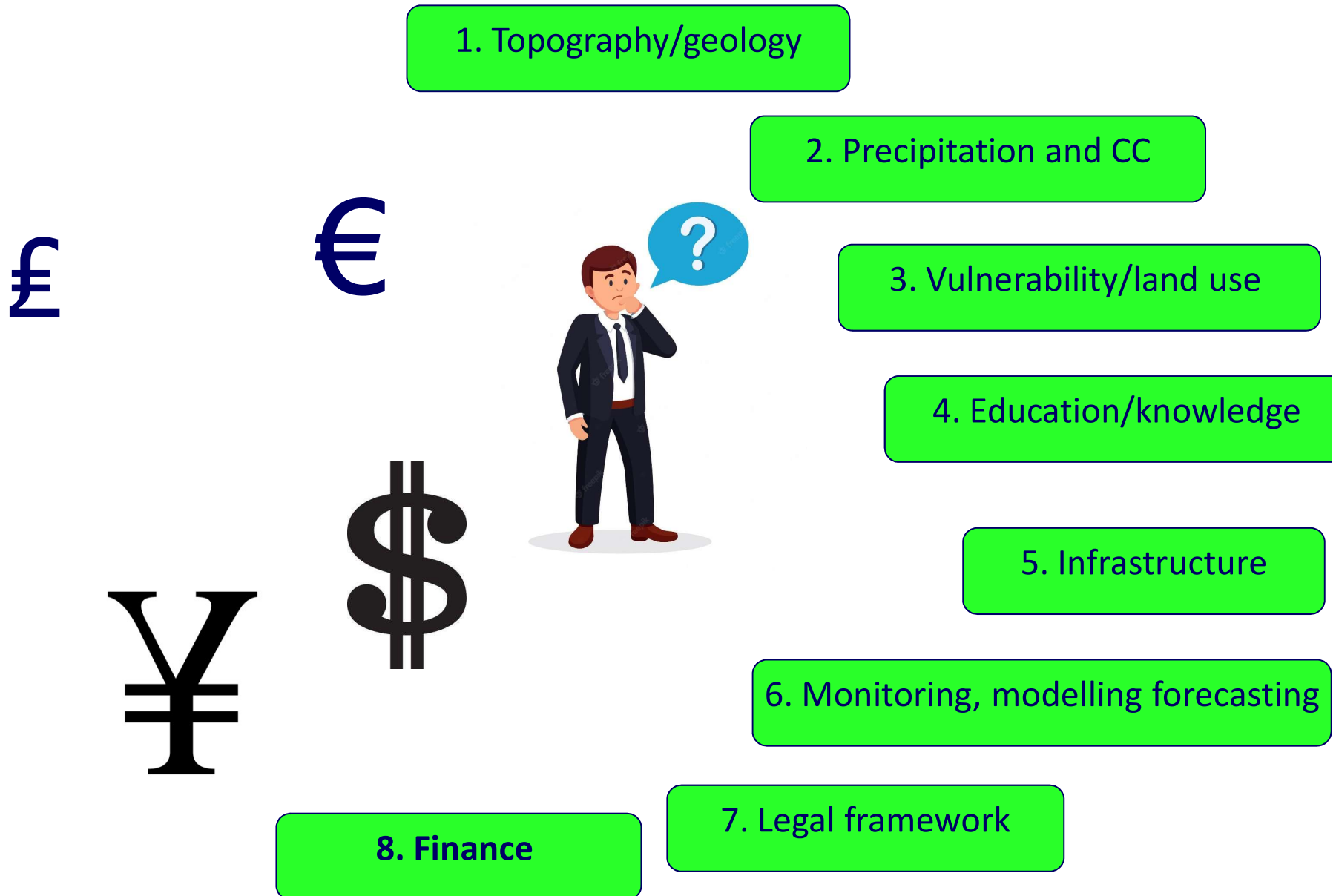
6. Monitoring, modelling, forecasting



# Floods and flood management are a complex challenge



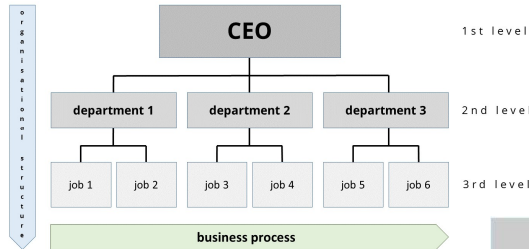
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# Floods and flood management are a complex challenge

1. Topography/geology

2. Precipitation and CC



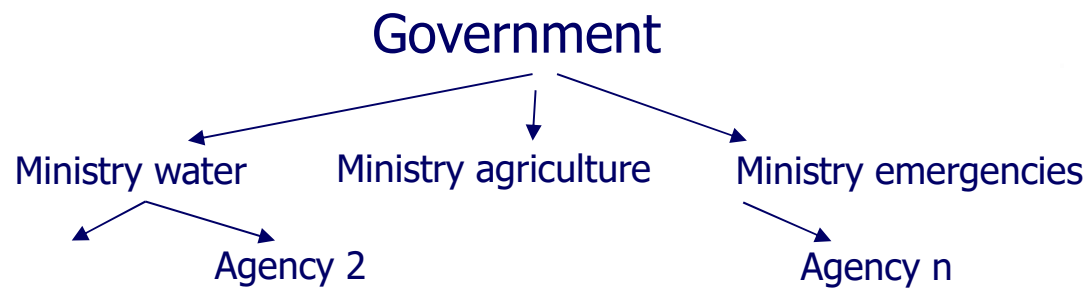
State  
Regions  
Local communities



Bilateral and multilateral

4. Vulnerability/land use

3. Education/knowledge



5. Infrastructure

6. Monitoring, modelling forecasting

9. Organization/governance

8. Finance

7. Legal framework

# Floods and flood management are a complex challenge



1. Topography/geology

2. Precipitation and CC

FUTURE - Objective status  
(no flood risk)

3. Vulnerability/land use

**Public  
participation**

4. Education/knowledge

NOW - Current status  
(flood risk)

**Water democracy**

5. Infrastructure

10. Planning

6. Monitoring, modelling forecasting

9. Organization/governance

7. Legal framework

8. Finance

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1. Topography/geology

2. Precipitation and CC



3. Vulnerability/land use



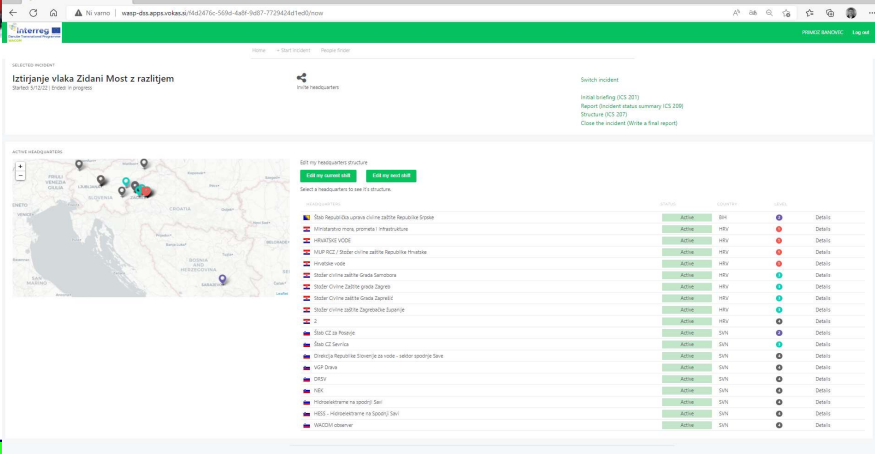
4. Education/knowledge

11 Response

ICS/NIMS/MACS

10. Planning

9. Organization/governance



5. Structure

8. Finance

7. Legal framework

6. Forecasting

# Floods and flood management are a complex challenge



1. Topography/geology

2. Precipitation and CC

3. Vulnerability/land use

4. Education/knowledge

5. Infrastructure

6. Modelling forecasting

7. Legal framework

8. Finance

9. Organization/governance

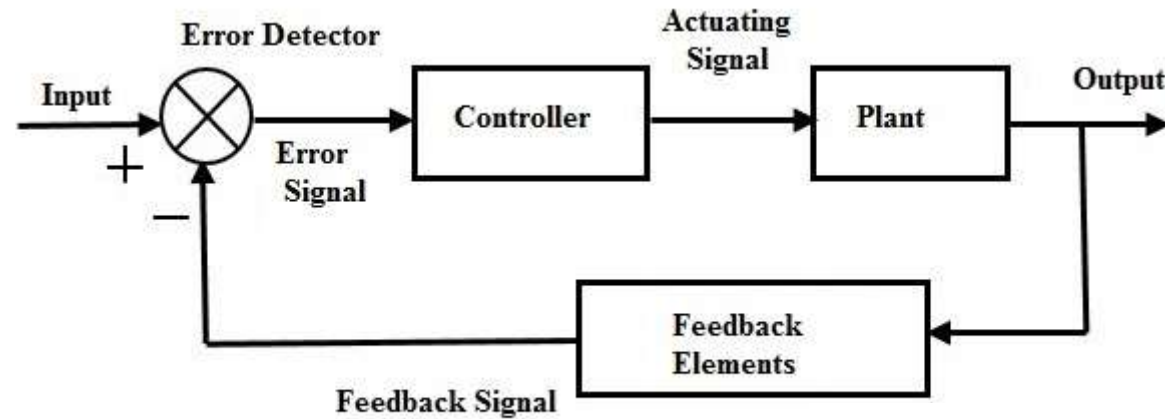
10. Planning

11 Response

12. Recovery



# Floods and flood management are a complex challenge



13. Supervision

12. Recovery

11 Response

10. Planning

9. Organization/governance

8. Finance

7. Legal framework

4. Education/knowledge

5. Infrastructure

Monitoring, modelling forecasting





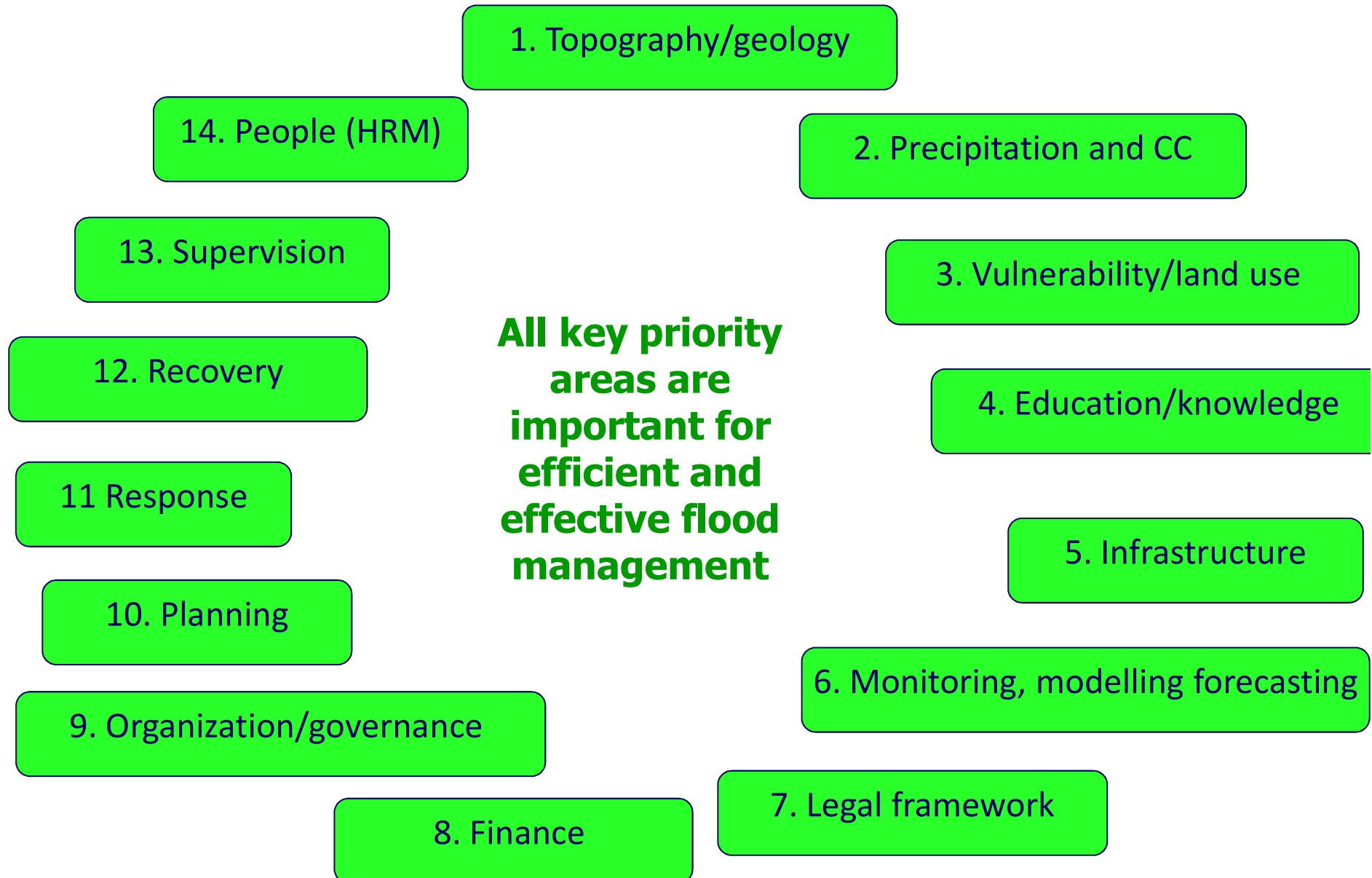
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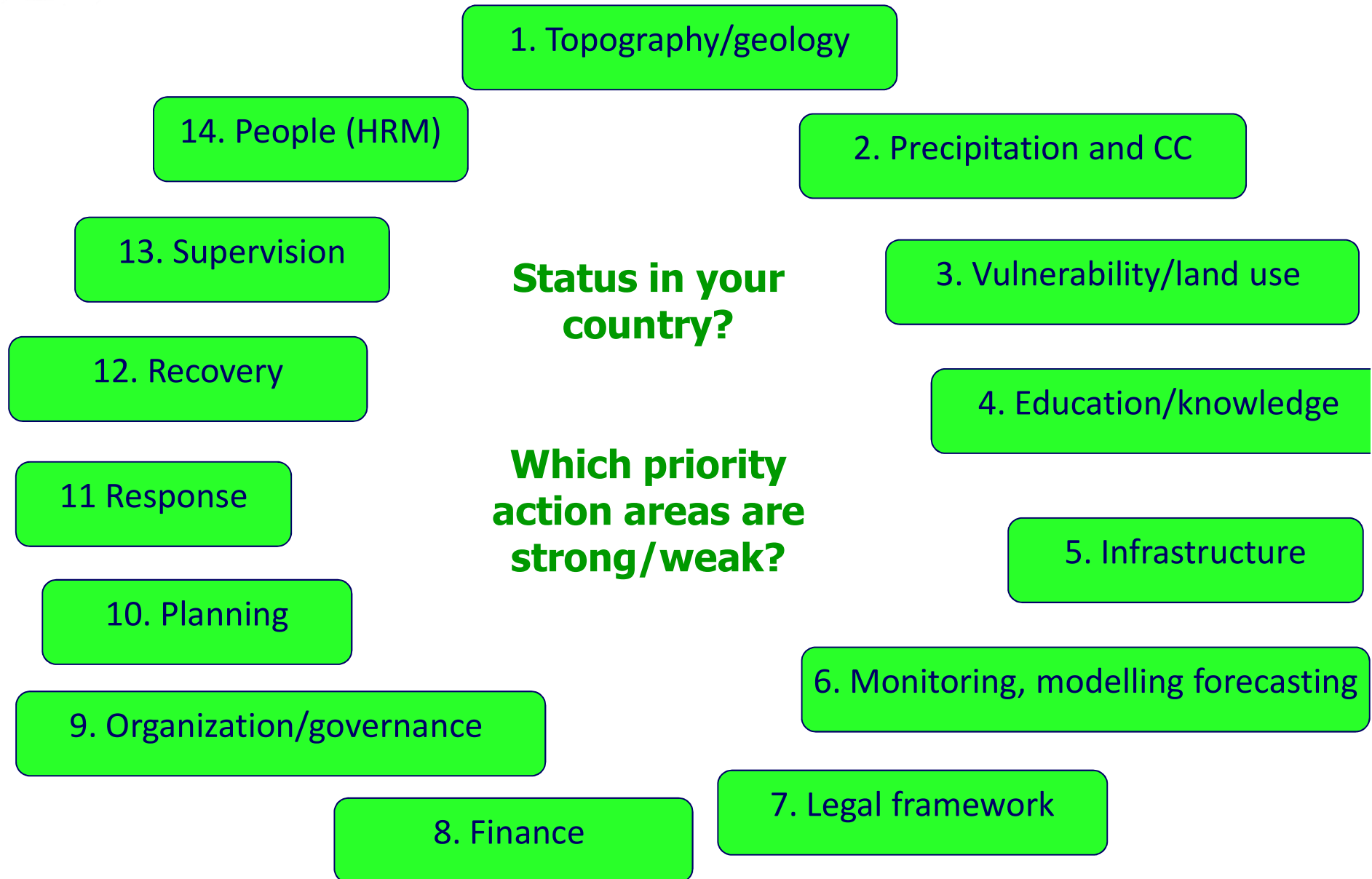


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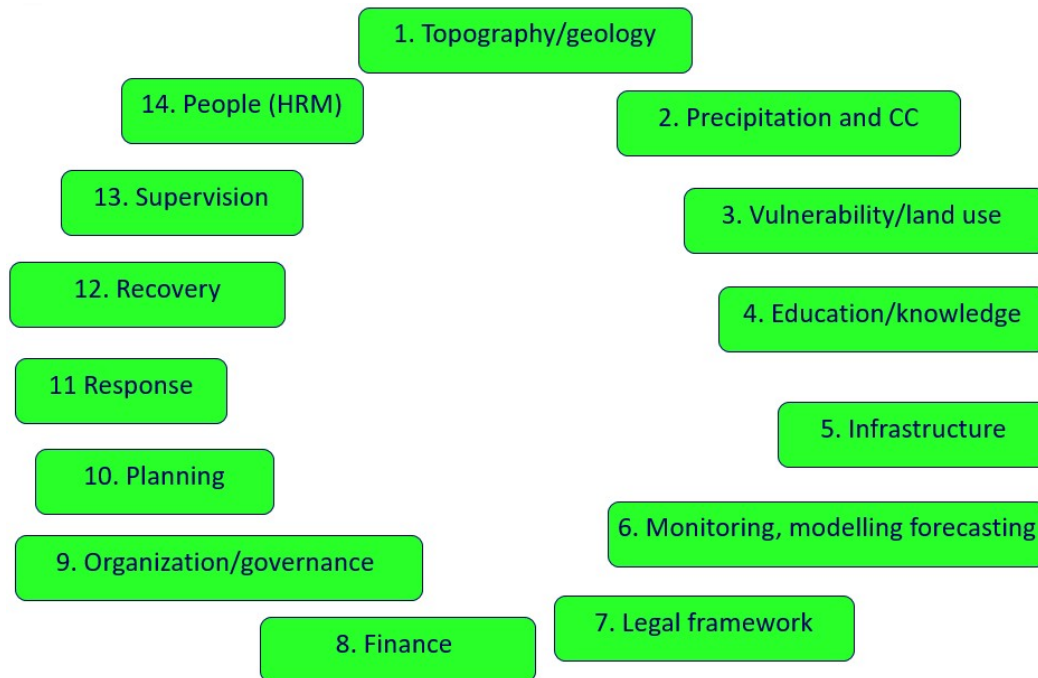




# Floods and flood management are a complex challenge



# Thank you for your attention



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