

Disaster Risk Assessor

HAZARD

- . PAST RECURRENCE
- O FUTURE PROBABILITY
- . SPEED OF ONSET
- . MAGNITUDE
- · DURATION
- . INTENSITY
- . AREA



VULNERABILITY



PEOPLE



PREMISES



PROCESSES



PROVIDERS



PROFILE



Hazards

- Fire
- Explosion
- Natural hazards
- Hazardous materials spill or release
- Terrorism
- Workplace violence
- Pandemic disease
- Utility outage
- Mechanical breakdown
- Supplier failure
- Cyber attack

Probability & Magnitud

Assets at Risk

- People
- Property including buildings, critical infrastructure
- Supply chain
- Systems/equipment
- Information Technology
- Business operations
- Reputation of or confidence in entity
- Regulatory and contractual obligations
- Environment

Vulnerability

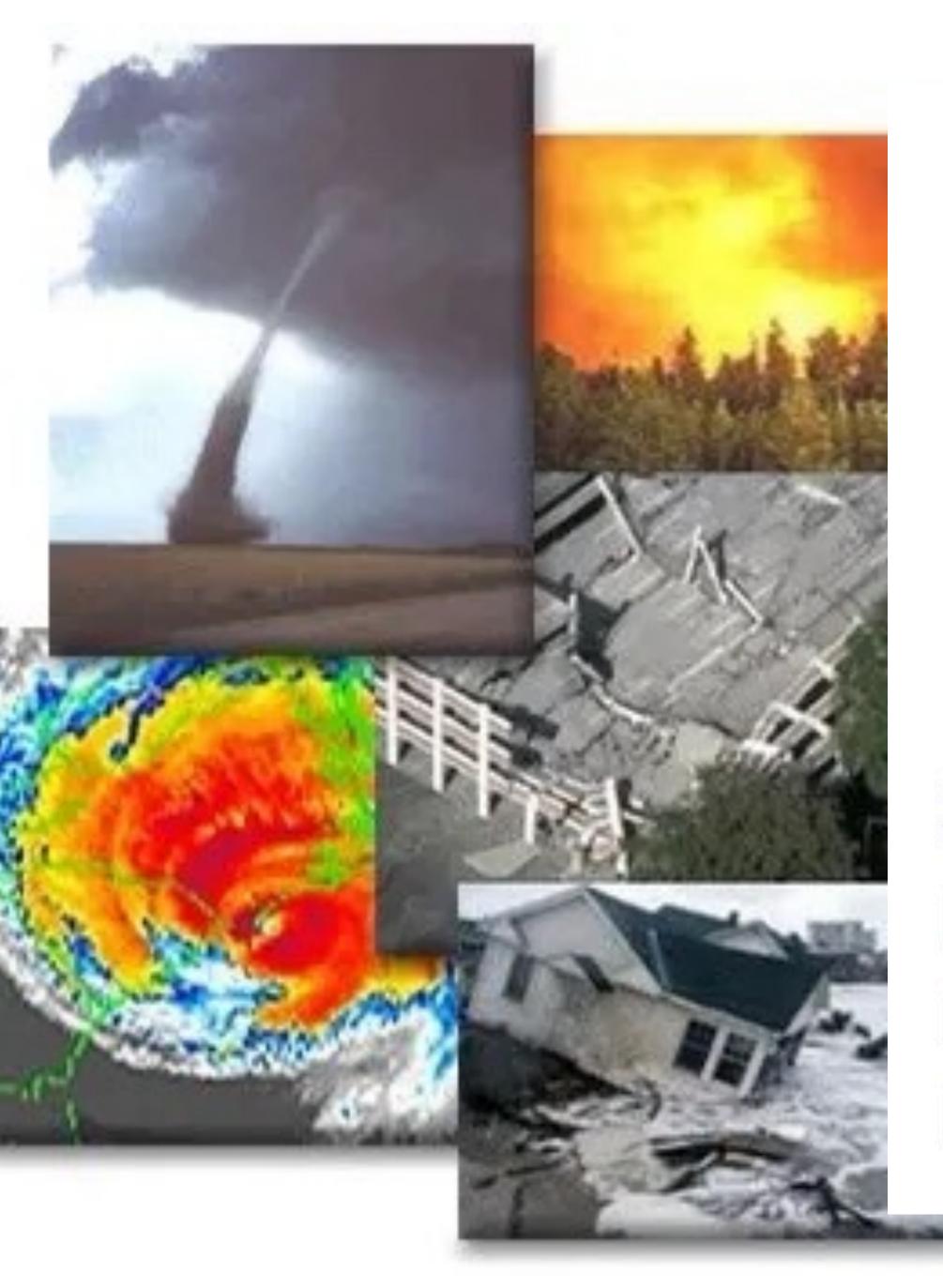
Impacts

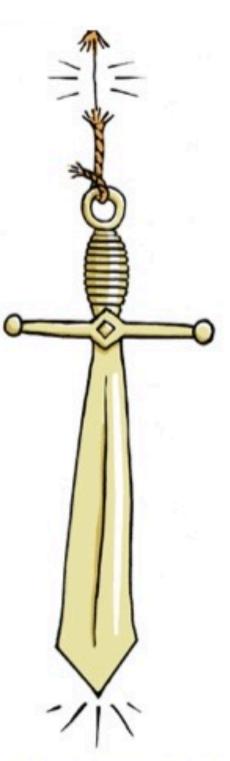
- Casualties
- Property damage
- Business interruption
- Loss of customers
- Financial loss
- Environmental contamination
- Loss of confidence in the organization
- Fines and penalties
- Lawsuits

Hazard Identification

Vulnerability Assessment

Impact Analysis





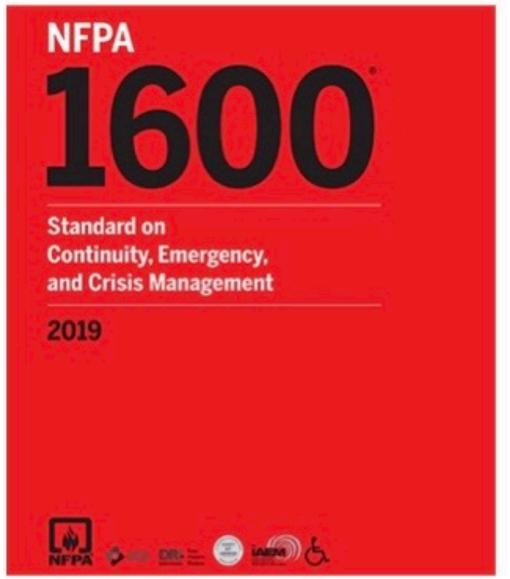
Select a hazard category (Ref NFPA 1600) - then scroll down to select a hazard to consider.

Geological	4 :
Meteorological	9 :
Biological	2:

Risks arise at the interface of Threats (Hazards) & Vulnerabilities

Assess risk to the things you care about through the lens of your significant hazards





Reference



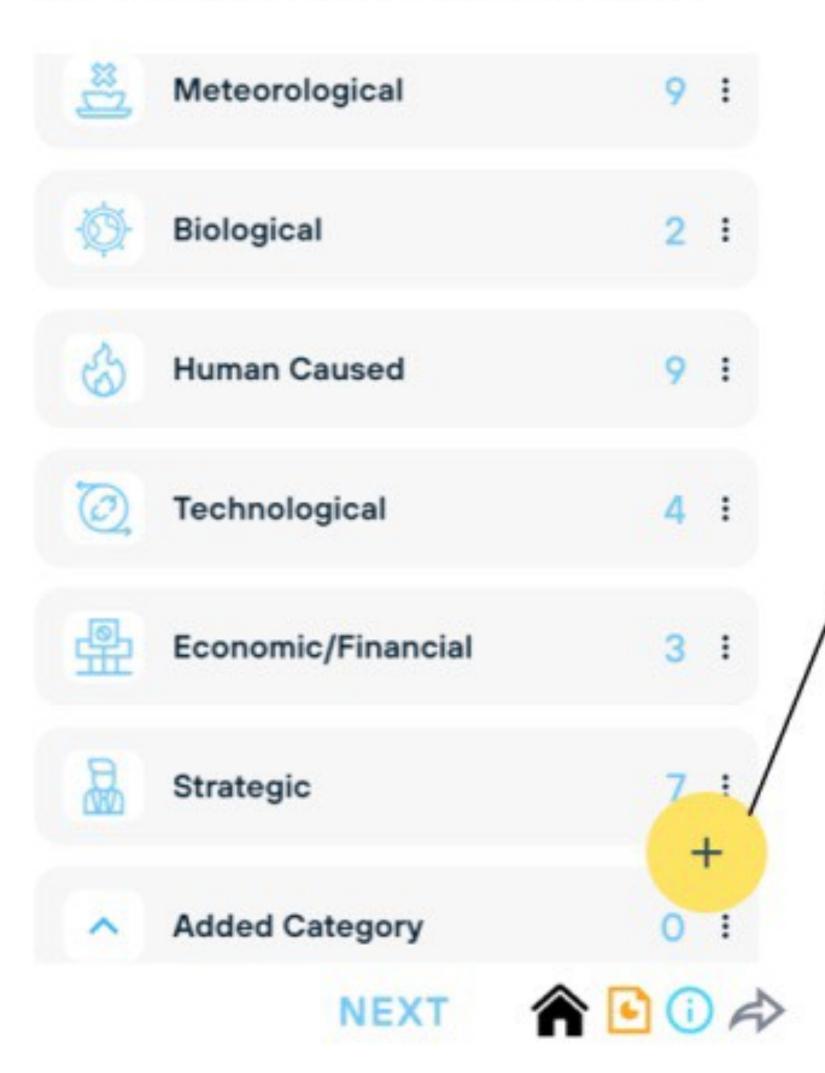
The hazard list is from internationally respected standards

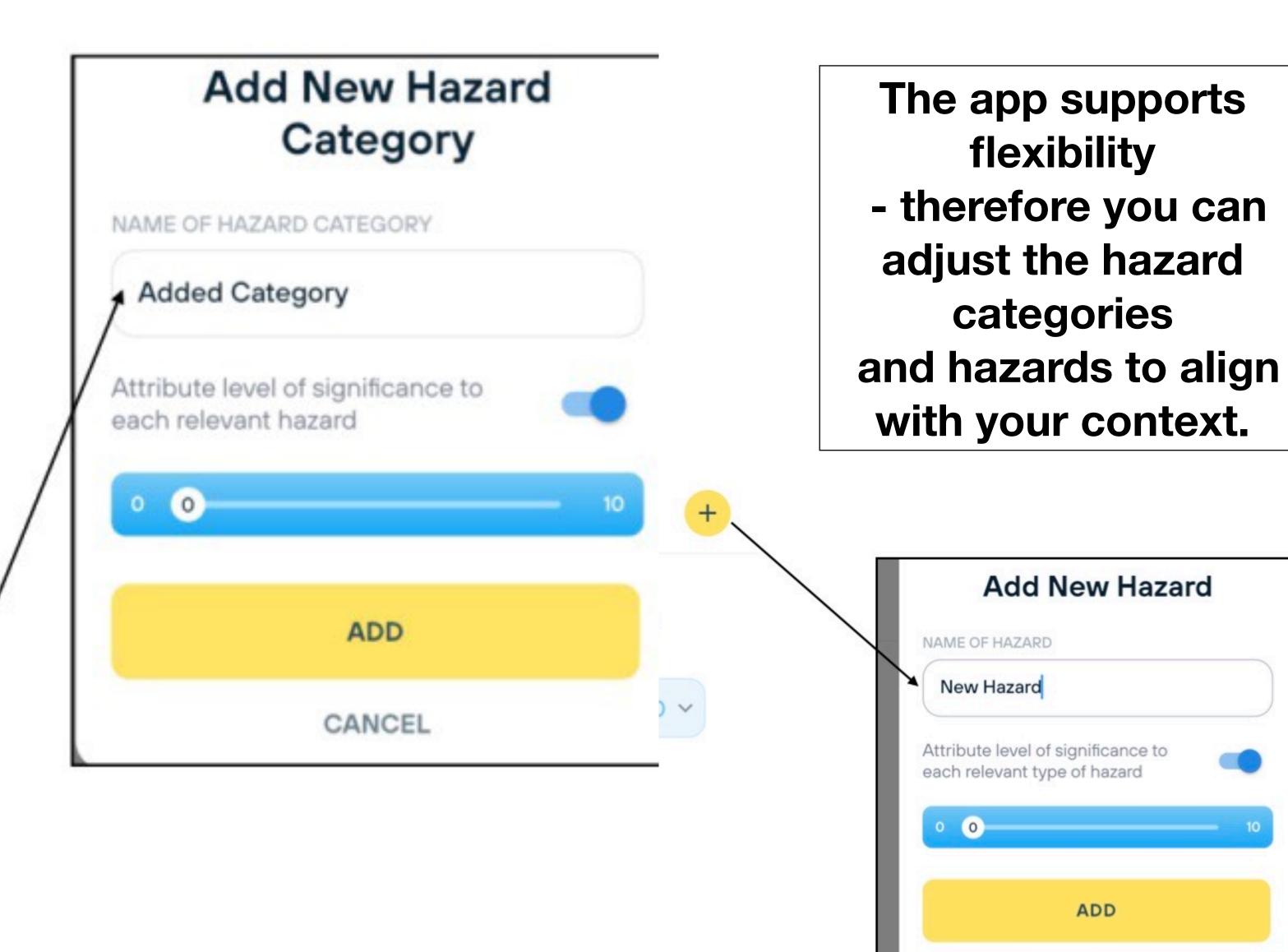
NFPA 1600 List of Hazards

- 1. Earthquake
- 2. Landslide, mudslide, subsidence
- 3. Tsunami
- 4. Volcano
- Drought
- 6. Extreme temperatures (hot, cold)
- 7. Famine
- 8. Flood, flash flood, seiche, tidal surge
- Geomagnetic storm
- 10. Lightning
- 11. Snow, ice, hail, sleet, avalanche
- 12. Wild land fire / Bushfire
- 13. Windstorm, tropical cyclone, hurricane, tornado, waterspout, dust storm, sandstorm
- 14. Food-borne illnesses
- 15. Infectious communicable pandemic diseases
- 16. Building / structure collapse
- 17. Entrapment
- 18. Explosion / fire
- 19. Fuel/resource shortage
- 20. Hazardous material spill or release
- 21. Equipment failure
- 22. Nuclear reactor incident
- 23. Radiological incident
- 24. Transportation incident
- 25. Unavailability of essential employee(s)
- 26. Water control structure failure (e.g. Dam or Levee)
- 27. Misinformation
- 28. Incendiary fire
- 29. Bomb threat
- 30. Demonstrationscivil disturbanceriot/insurrection
- 31. Discrimination/harassment
- 32. Disinformation (rumours, false allegations, or accusations)
- 33. Kidnappinghostageextortion
- 34. Geopolitical risks including acts of war, change in government, and political instability
- 35. Missing person
- 36. Cyber security incidents
- 37. Product defect or contamination
- 38. Robbery / theft / fraud

Hazard Categories

Select a hazard category (Ref NFPA 1600) then scroll down to select a hazard to consider.





No Hazards Selected yet - click on the +

button to add a hazard

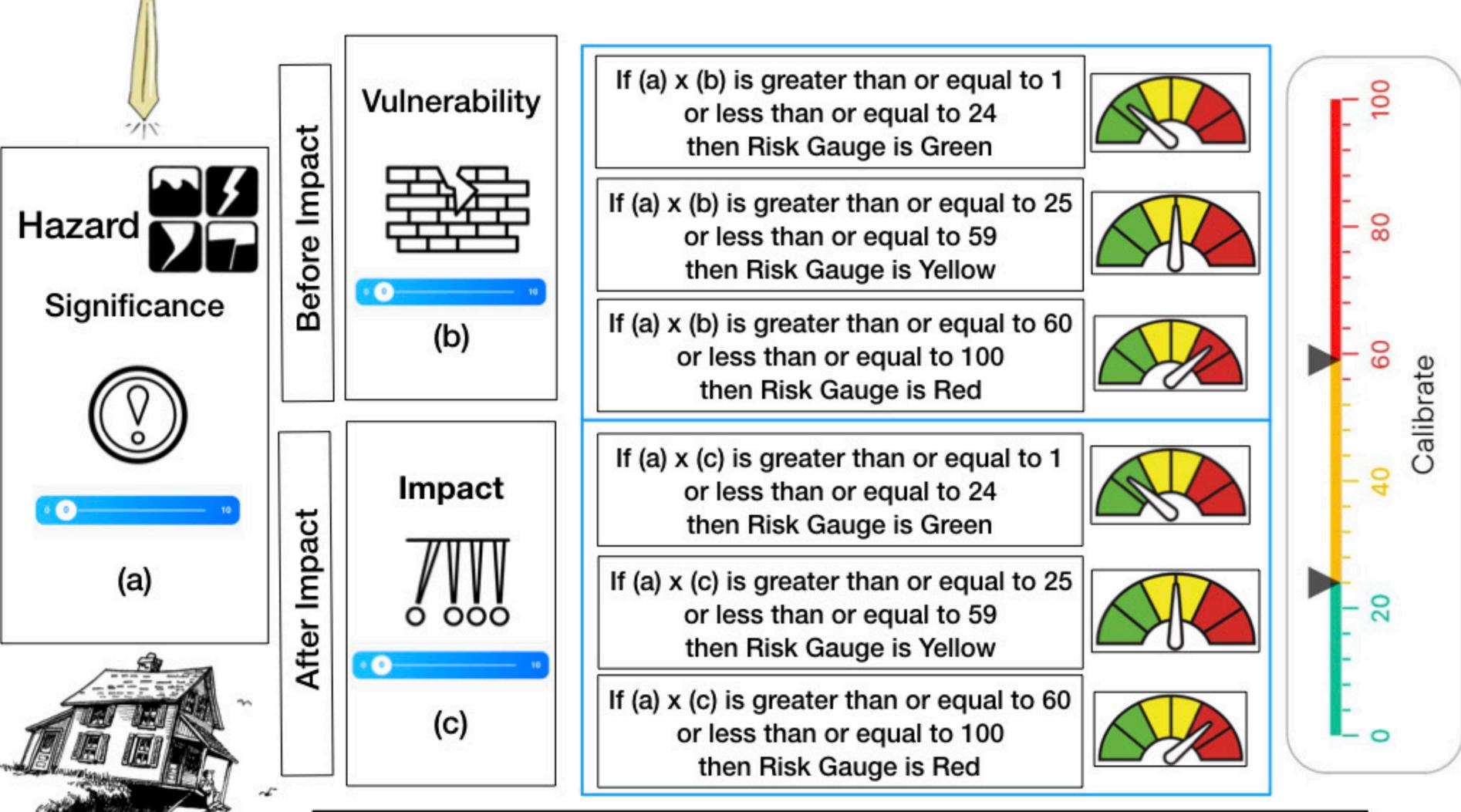
ADD

CANCEL

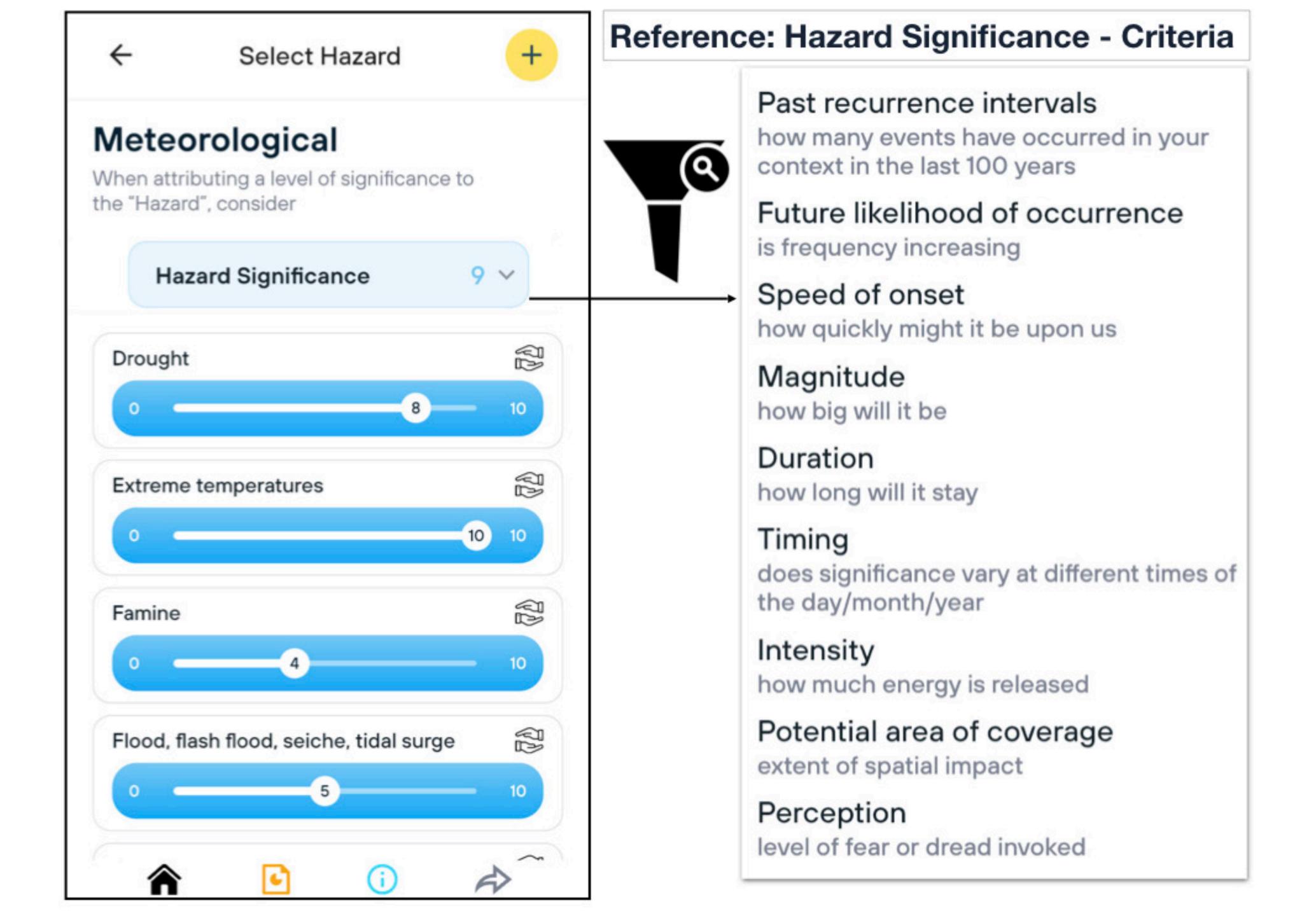
Reference: Risk Algorithm

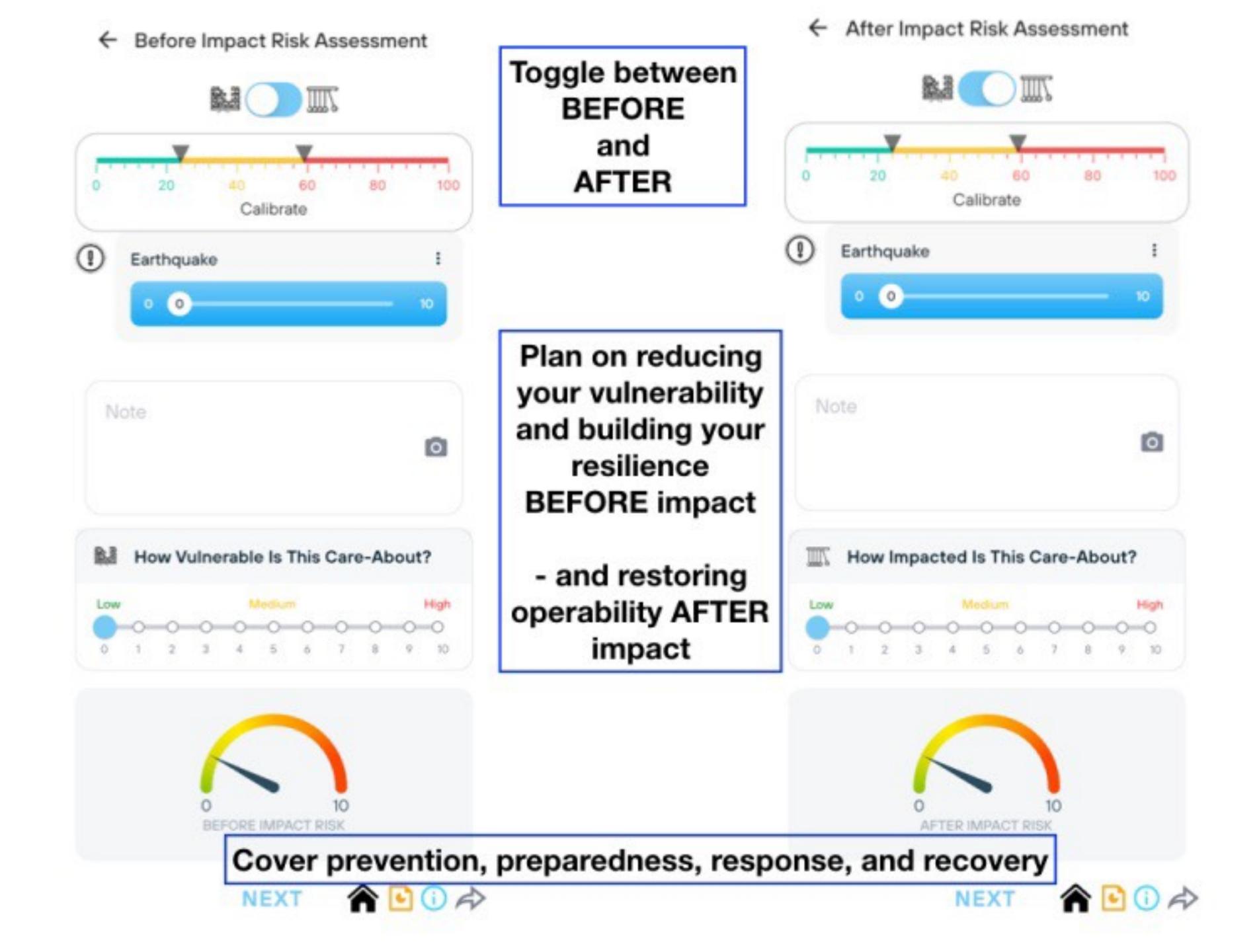
Before Impact Risk - the interface between hazards and vulnerability of thing(s) we care about.

After Impact Risk - the interface between hazard events and impact on thing(s) we care about.



Calibrate for Context
Users can adjust the risk thresholds to reflect the values of their context.





Reference: Vulnerability is a function of many things. It is about the characteristics and features of the thing(s) you care about, and the dependencies and interdependencies associated with it (them), which make it (them) more resilient, or more adaptable, or more fragile.

In a nutshell, vulnerability is about the "propensity or predisposition to be adversely affected" [1]. It may be summarised as "a measure of the extent to which 'something you care about' such as a community, structure, service or geographical area is likely to be damaged or disrupted (on account of its nature or location) by the impact of a particular event" [2]. Vulnerability encompasses a variety of concepts and elements including sensitivity or susceptibility to harm and lack of capacity to cope and adjust.

Adaptive capacity is the "ability of systems, institutions, humans, and other organisms to adjust to potential damage, to take advantage of opportunities, or to respond to consequences" [3].

[SOURCE 1: ISO 14091 Adaptation to climate change – Guidelines on vulnerability, impacts and risk assessment].

[SOURCE 2: Glossary of Environment Statistics, Studies in Methods, Series F, No. 67, The Organisation for Economic Co-operation and Development].

[SOURCE 3: ISO 14090:2019 Adaptation to climate change].

Plan

DONE

If the decision (of what action to take) is complex, consider using our OughtWe app

HEADER

Action Plan

DESCRIPTION

Given the significant risks to the things you care about, action needs to be taken. (Identify, and describe, the things you rely on in your context).

Resources – as listed in NFPA 1600

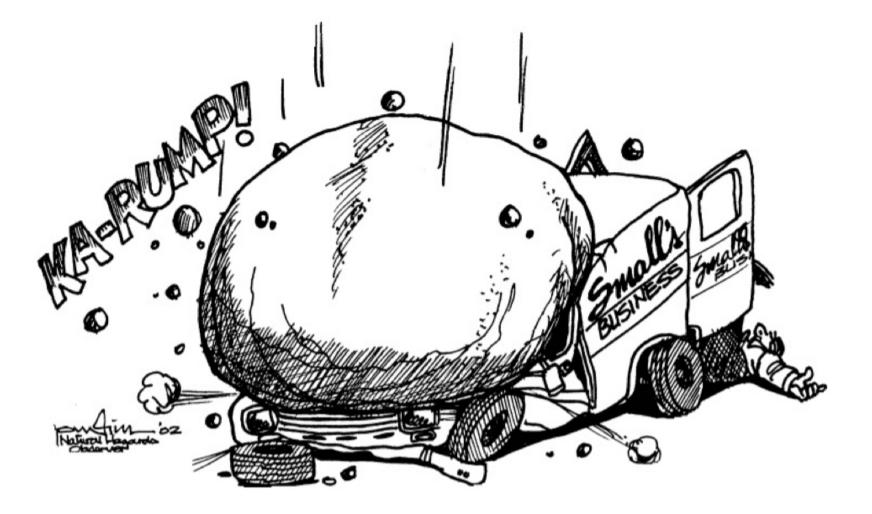
WHAT NEEDS TO BE DONE?

Consider a business continuity plan and/ or tools and/or software.

WHAT IS NEEDED TO DO IT?

Consider using the "OughtWe - Disaster Management Decision Maker app"

Consider using the "Disaster Management Decision Maker app".



When Disasters and Small Businesses Collide



The last thing you need is burdensome paperwork

RESPONSIBLE PERSON

Responsible persons name

TRACK

Is this work progressing in a way that is likely to achieve what is required?





BUDGET

Is this work progressing within the amount you have available to spend?





TIME

Is this work progressing within the schedule you have agreed to meet?





PROPOSED

Has this work been proposed?





APPROVED

Has this work been approved?



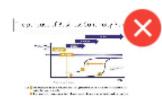


IMAGES:





















HAZARDS

4

- All Hazards
- Selected Hazards

RISK LEVLS

- All Risk Levels
- Selected Risk Levels

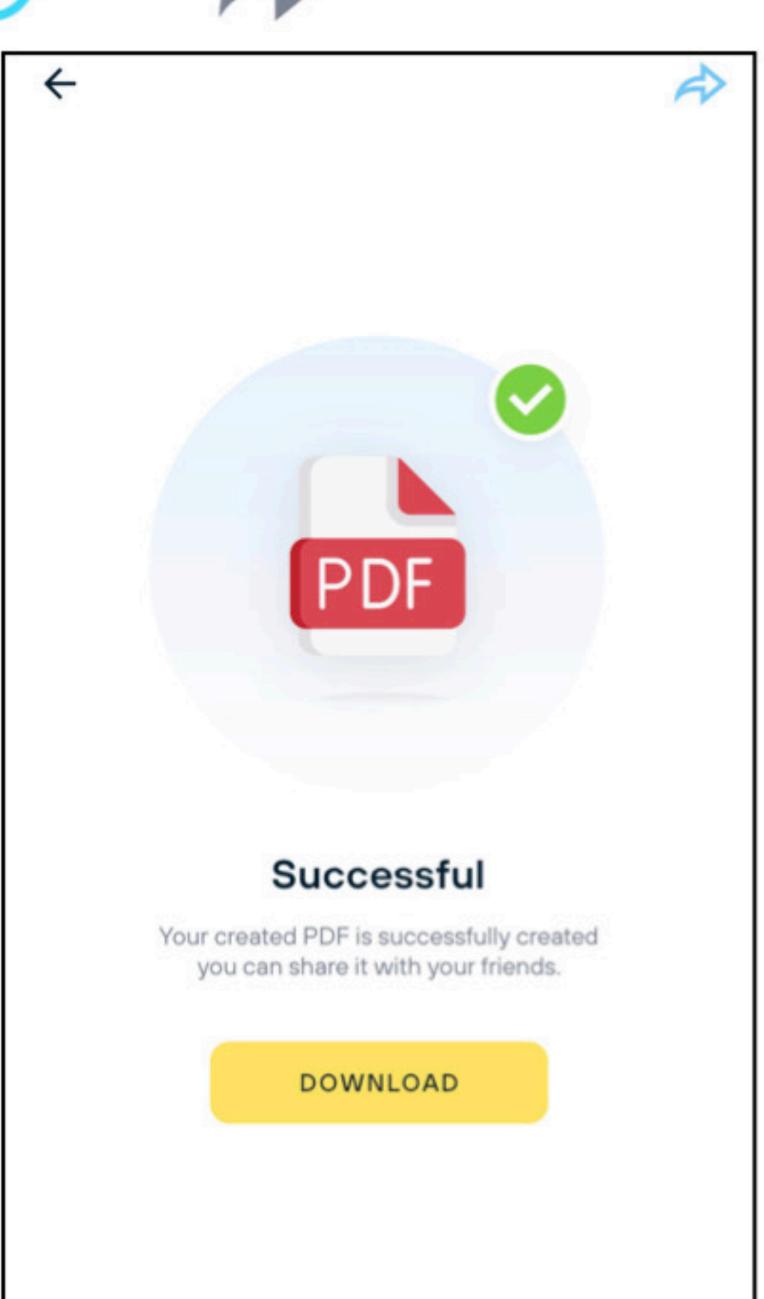
PLANS

- All Plans
- Selected Plans

MONITORING

- On/Off Track
- On/Off Budget
- On/Off Time

CREATE PDF



Tailor reports.

Generate PDFs.

Communicate.