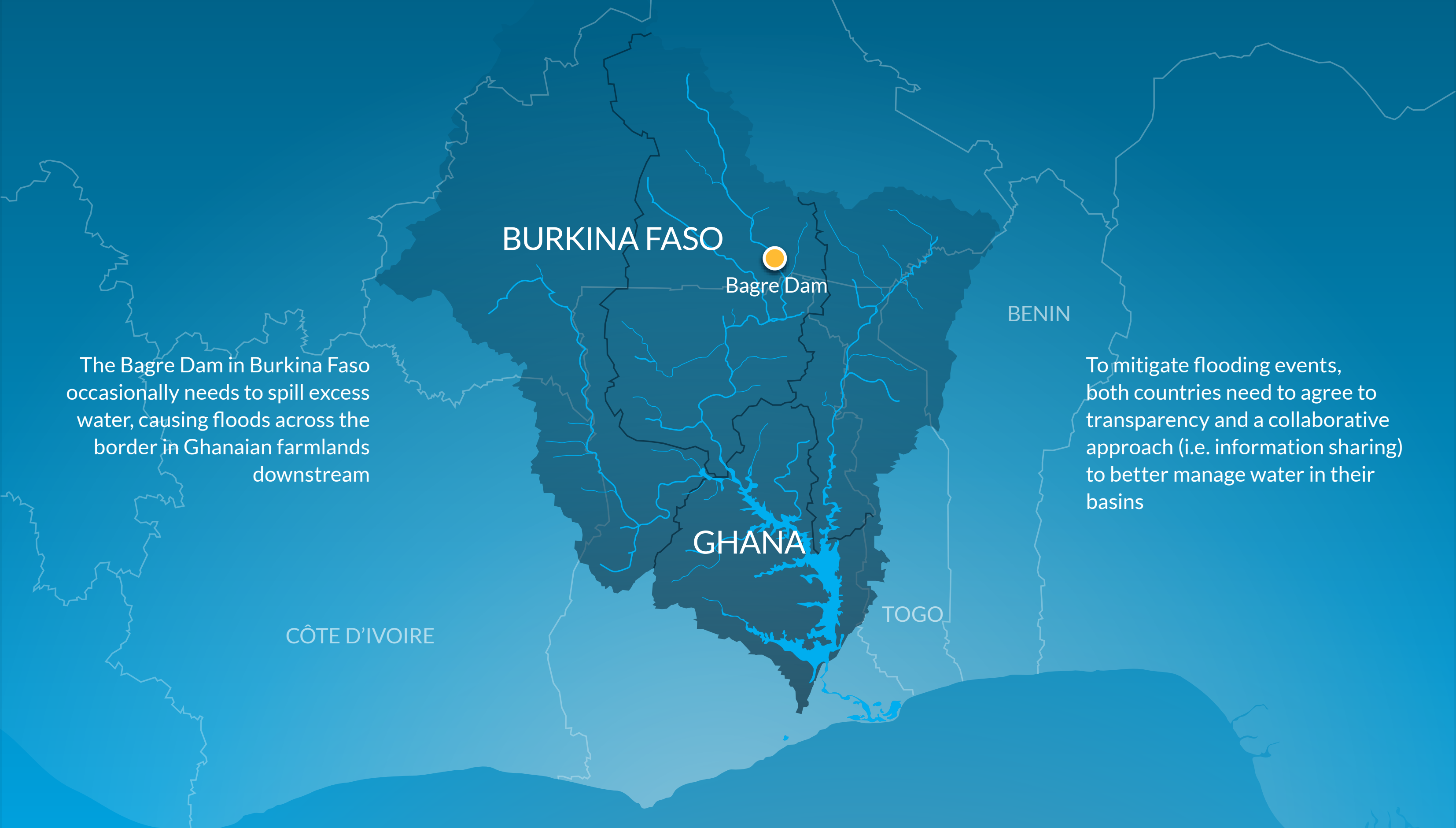
Our shared online platform makes transboundary basin planning a reality

Climate change is altering weather patterns leading to extreme floods and droughts

Floods and droughts impact human welfare, ecosystems and economies, devastating millions of lives globally

Climate change also makes such events increasingly common, less predictable and more severe

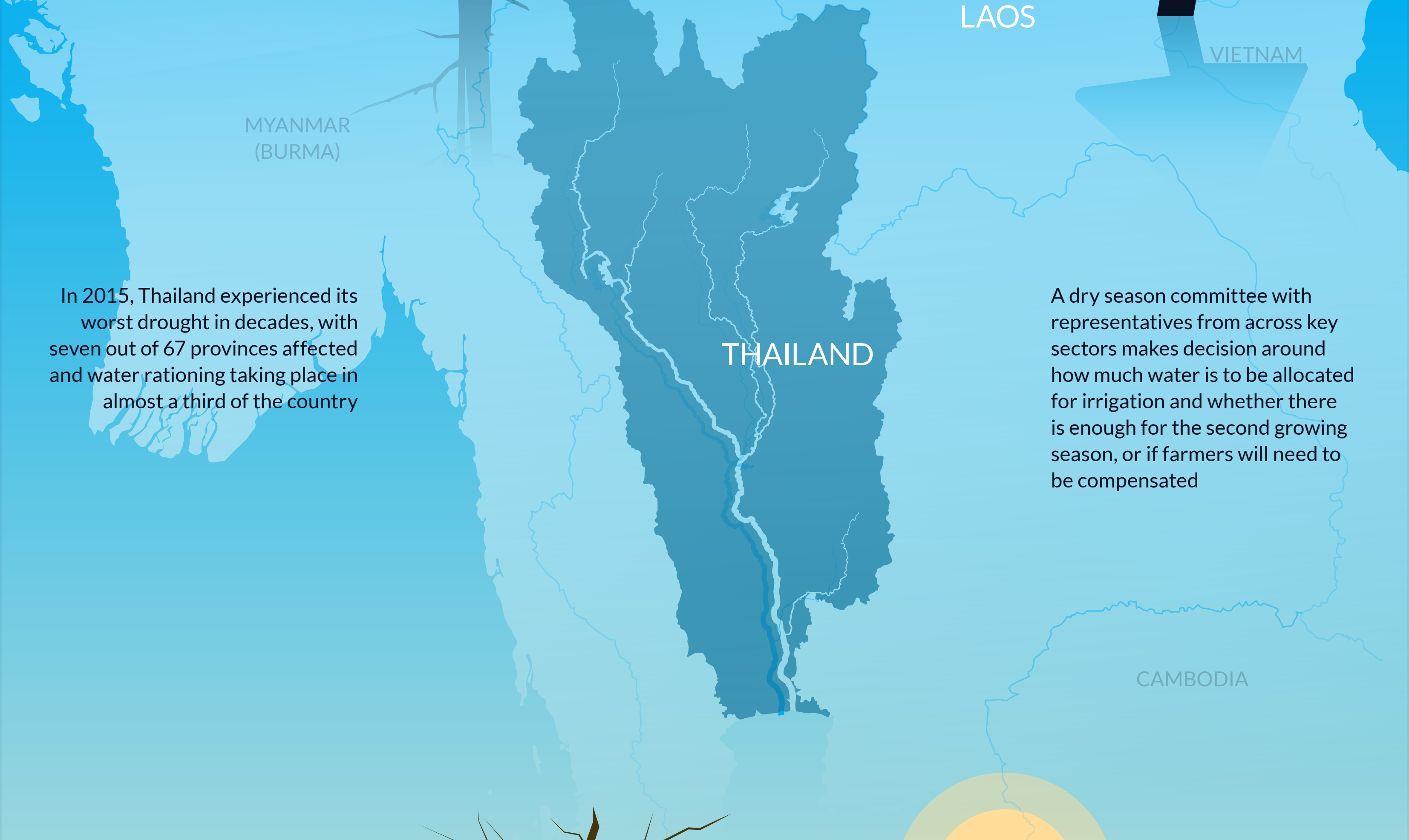
Populations, especially the most vulnerable, are at increasing risk of the impacts of floods and droughts



The Bagre Dam in Burkina Faso occasionally needs to spill excess water, causing floods across the border in Ghanaian farmlands downstream

To mitigate flooding events, both countries need to agree to transparency and a collaborative approach (i.e. information sharing) to better manage water in their basins

Building resilience and adapting to future flood and drought challenges demands effective cross-border collaboration



In 2015, Thailand experienced its worst drought in decades, with seven out of 67 provinces affected and water rationing taking place in almost a third of the country

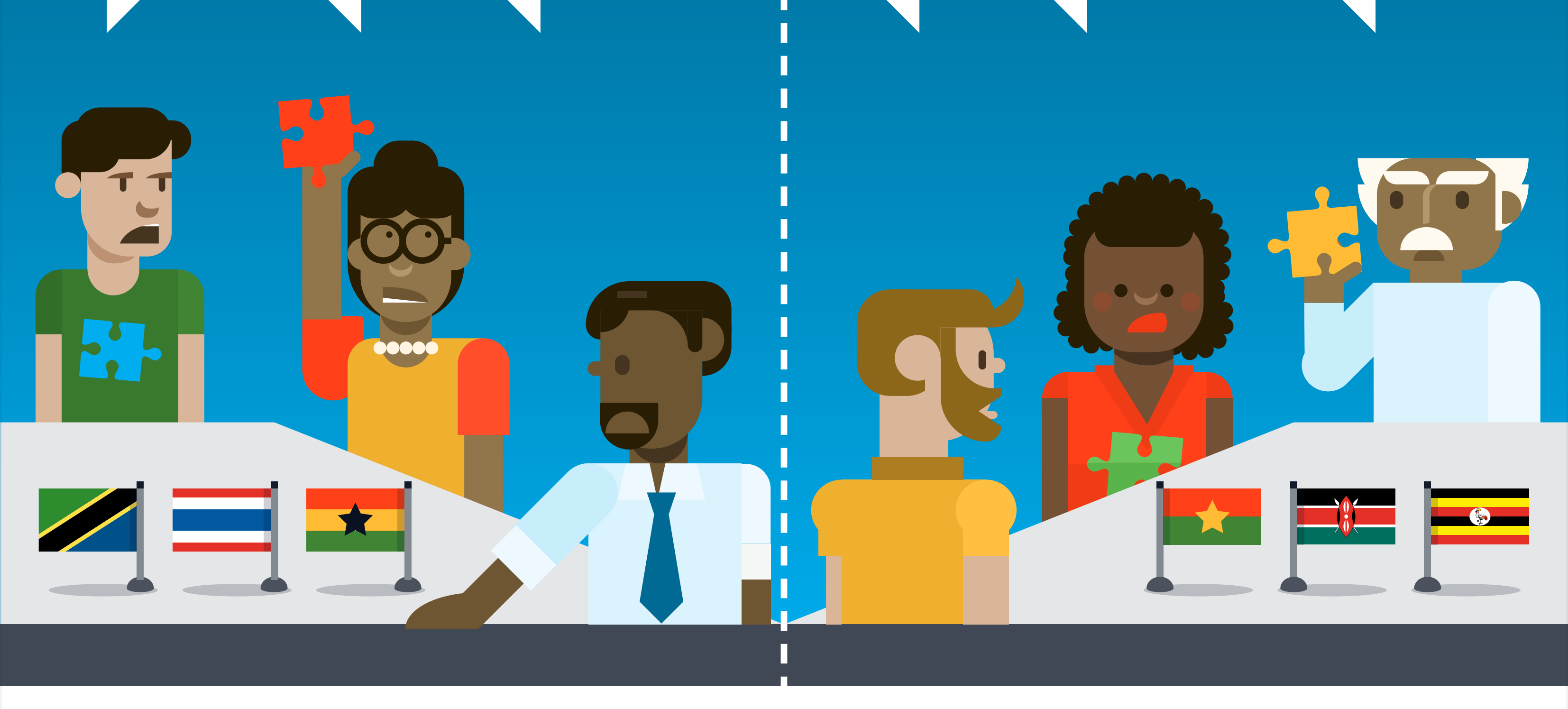
A dry season committee with representatives from across key sectors makes decision around how much water is to be allocated for irrigation and whether there is enough for the second growing season, or if farmers will need to be compensated

Increasing uncertainty of the climate can make it difficult to plan and prepare for floods and droughts

Transboundary basin organisations are set up for cooperation across borders but getting agreement can be difficult

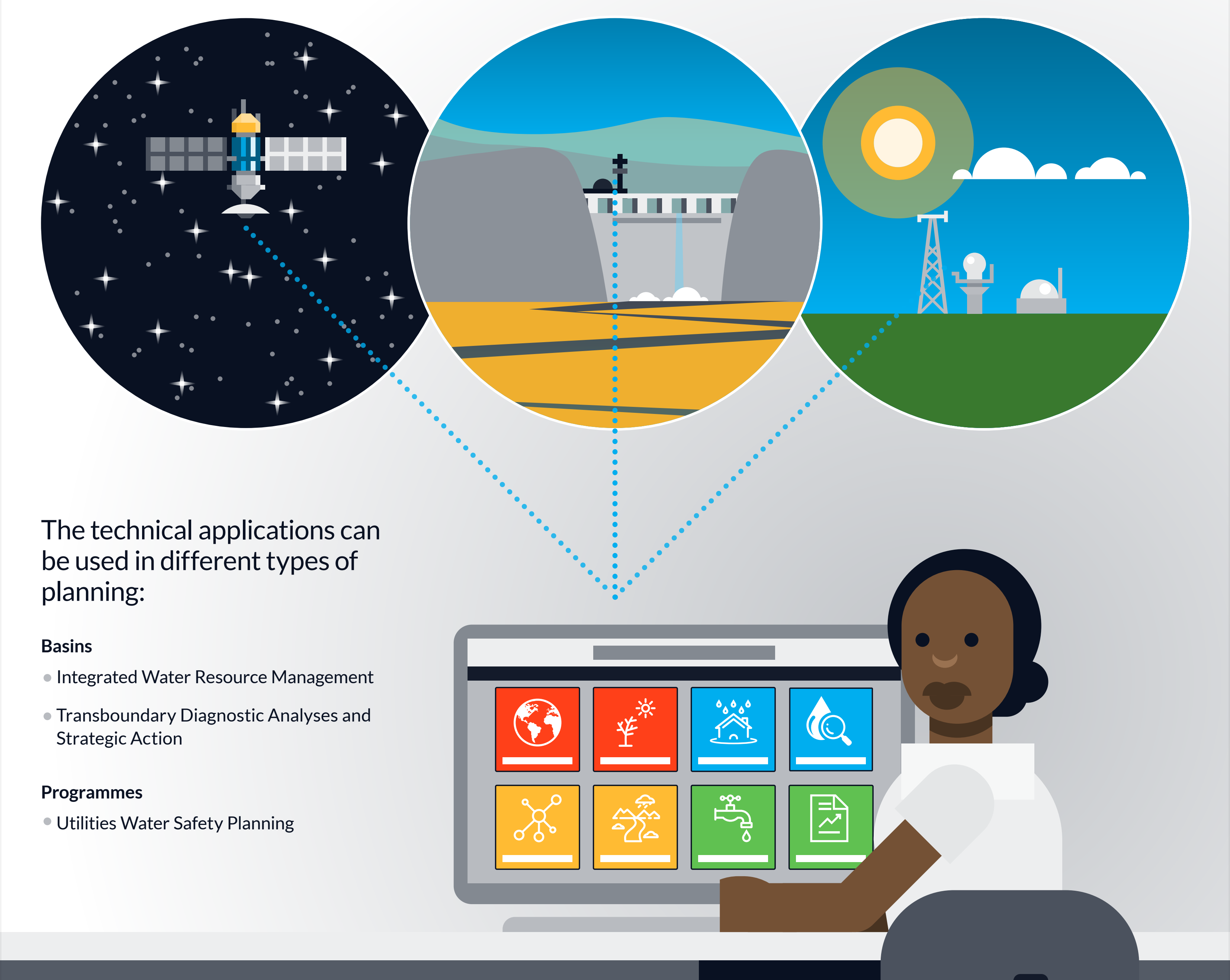
Decisions are often made at the country level. But countries may have differing priorities and don't always share critical information

Sharing data between countries can be difficult, but working alone is not an effective approach to water management



There is an urgent and growing need for information and analysis of flood and drought risk to help water managers plan more effectively across borders

The Flood and Drought Management Tools project provides an online web portal with technical applications that can include flood and drought information into planning. Satellite data on the climate is used in tools that assess flood and drought risk



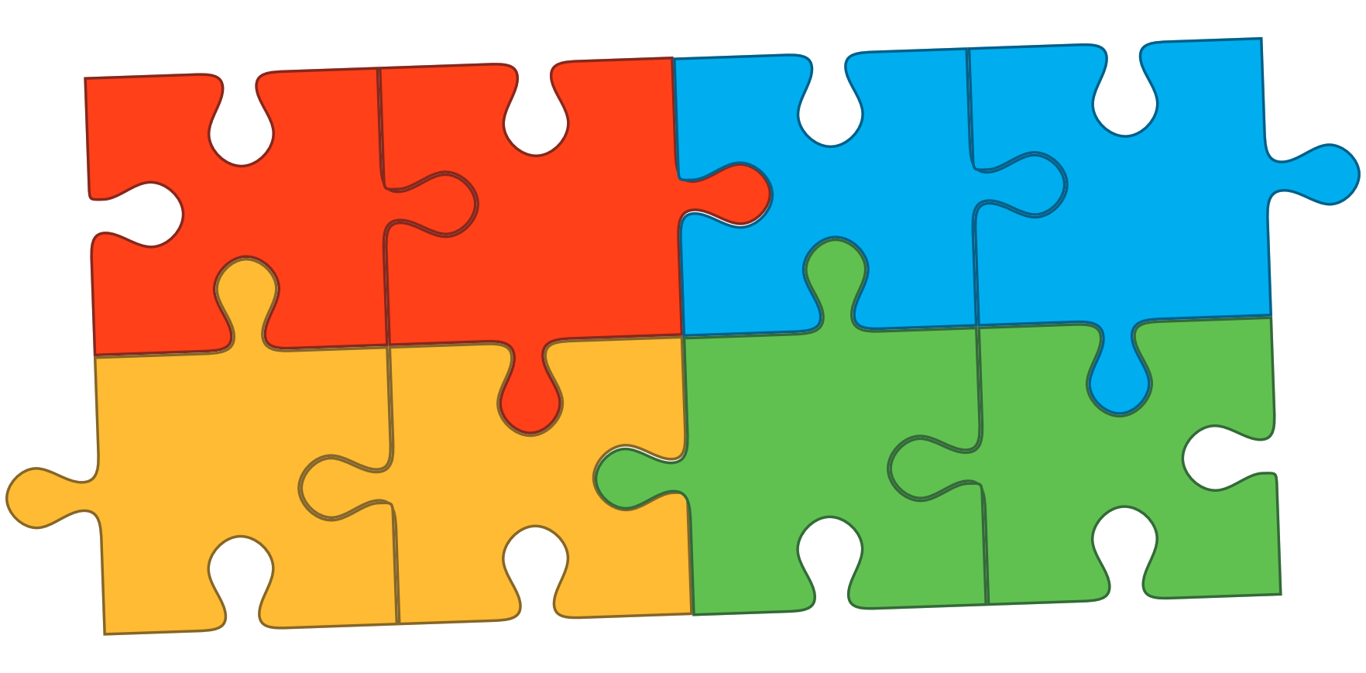
The technical applications can be used in different types of planning:

Basins
- Integrated Water Resource Management
- Transboundary Diagnostic Analyses and Strategic Action

Programmes
- Utilities Water Safety Planning

The technical applications can be used individually or together to identify and evaluate flood and drought hazards and risks, and plan for how to address the problems.

Using the technical applications builds capacity among organisations within transboundary basins



Satellite and global data sets can be a starting point for sharing information within transboundary basins to address the implications of climate change

The applications can be used to compile information from models, indicators and existing plans into planning scenarios that are robust, resilient, pragmatic and adhere to best practice

The web-based applications allows sharing of plans across multiple users; e.g. policy makers, managers, engineers, researchers, in the same transboundary basin.

The approach provided by the technical applications helps build a shared vision and plan across borders

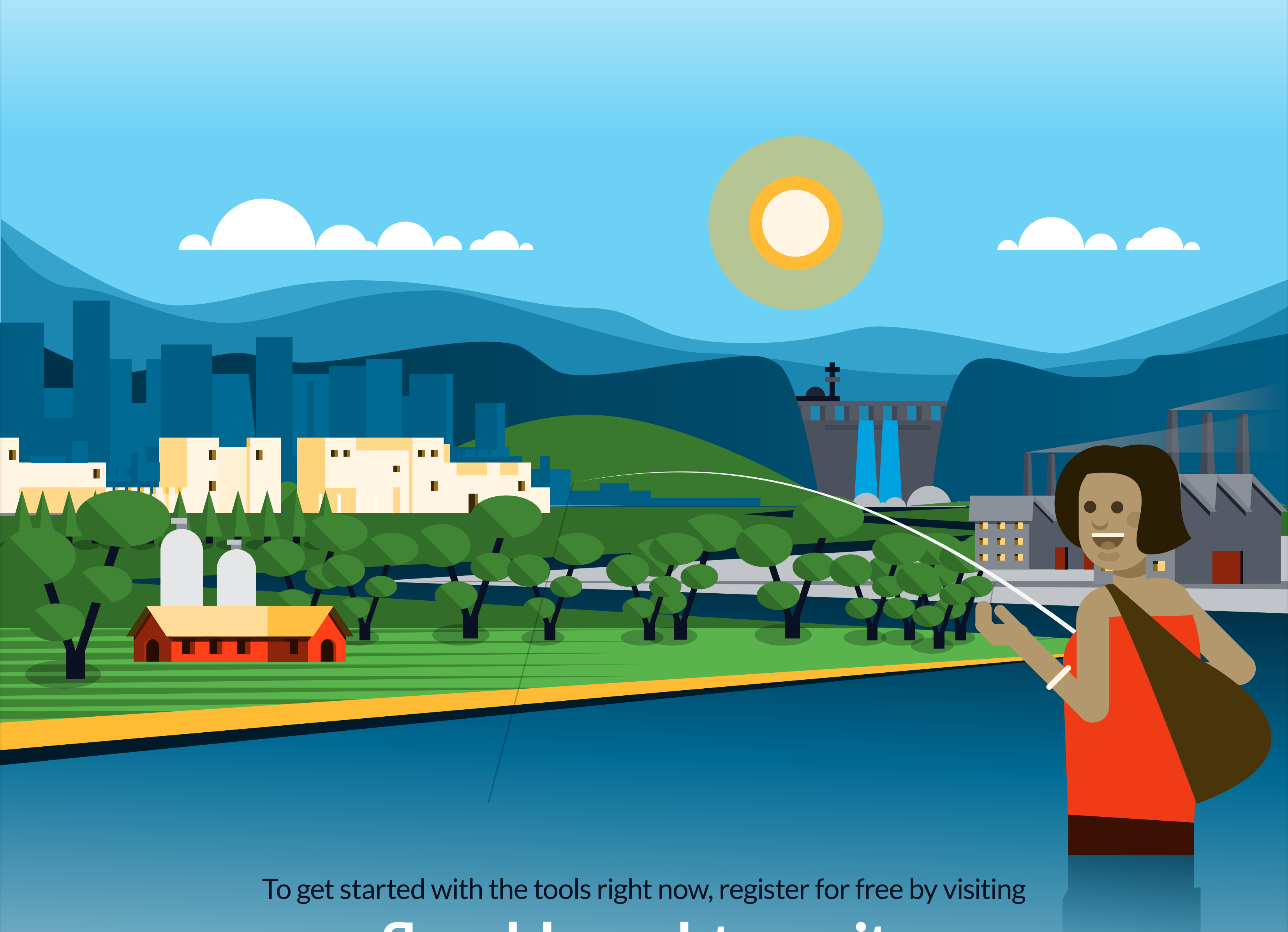
Ongoing positive feedback loops within transboundary water planning will lead to more impactful investments and achievement of the targets set in the UN Sustainable Development Goals

6 CLEAN WATER AND SANITATION
11 SUSTAINABLE CITIES AND COMMUNITIES
15 LIFE ON LAND
9 INNOVATION AND INFRASTRUCTURE
13 CLIMATE ACTION
17 PARTNERSHIPS FOR THE GOALS

Improved water security and safety provided by water utilities to their customers in cities and communities

Increased economic productivity through better preparedness and planning for climate impacts of flooding and droughts

Improved livelihoods from increased efficiency in water supplies to industry and agriculture



To get started with the tools right now, register for free by visiting

www.flooddroughtmonitor.com

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