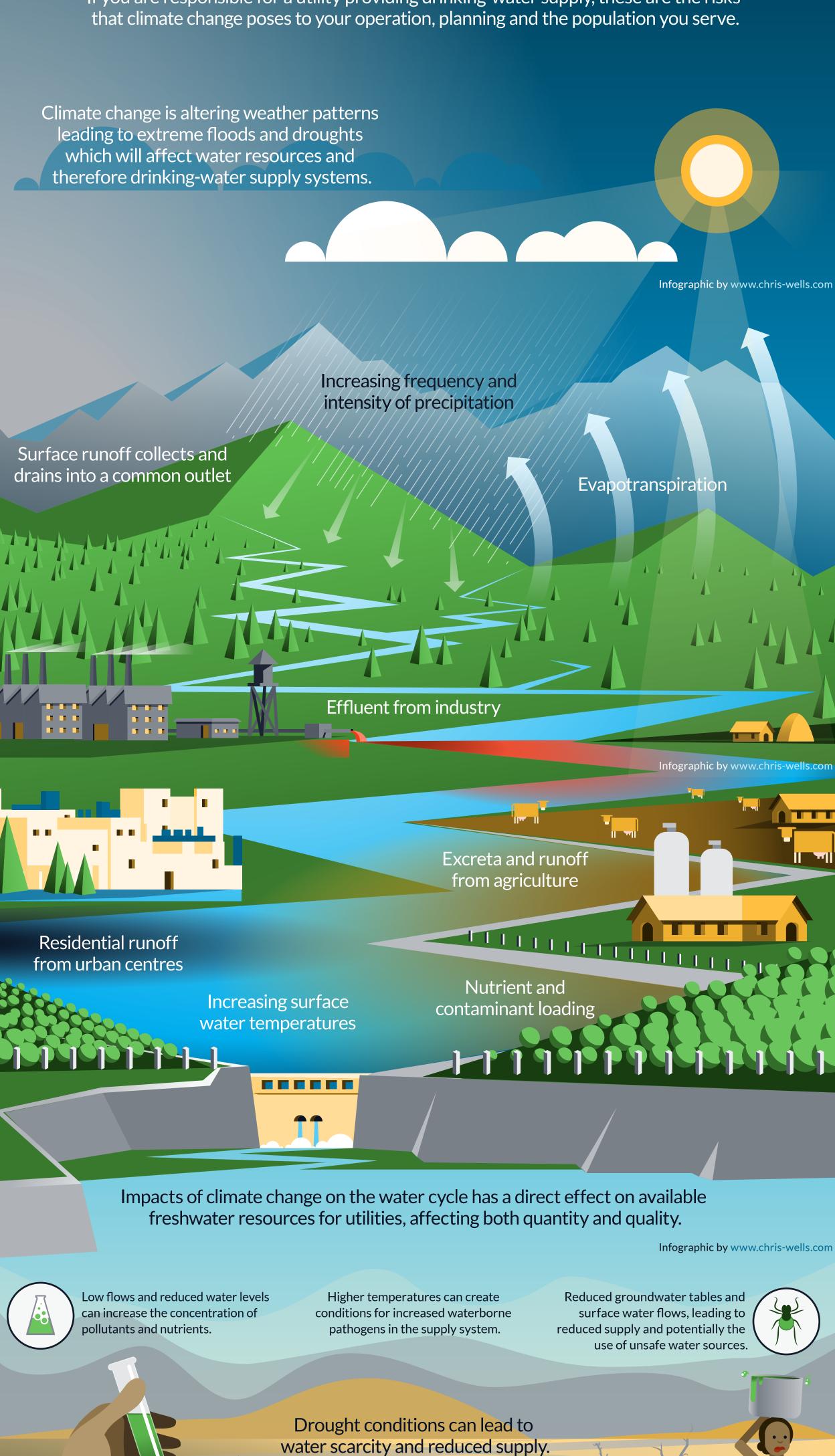
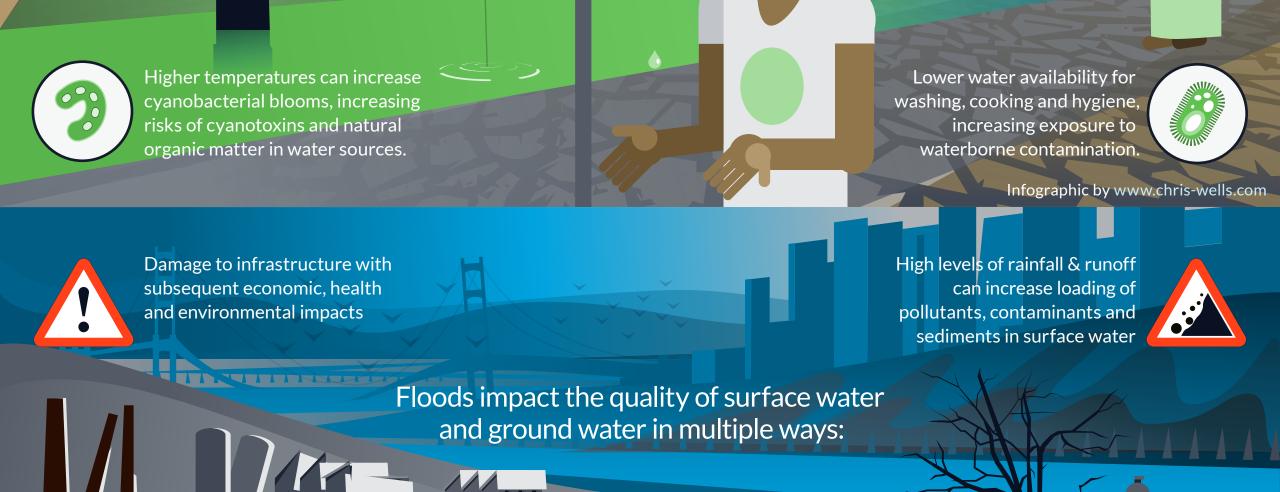
How water utilities can prepare and plan for climate change impacts

If you are responsible for a utility providing drinking-water supply, these are the risks





Contaminated water entering Overflow and contamination groundwater through wells from sewerage systems Flood Infographic by www.chris-wells.com A changing climate affects the timing, predictability and intensity of precipitation. Climate change will impact our operations and put Adjustments must be made to our policies, programmes our populations, especially the most vulnerable, at and infrastructure to prepare for and cope with changing increased risk. freshwater quantity and quality.

Land, water and urban area managers can better prepare for water related risks by integrating information on flood and drought events into planning and analysis processes to ensure drinking water is safe. Infographic by www.chris-wells.com

Addressing these climate hazards and impacts demands effective planning.

Water Safety Planning offers water utilities with such an approach.

Water Safety Planning is a comprehensive risk assessment and management approach across each step in the water supply system from catchment to tap.

before they threaten the water supply system.

Water safety planning tool provides an online

framework for supporting development, documentation and monitoring of a WSP.

water source).

Addressing climate hazards using a Water Safety Plan enables your utility to increase its flexibility and resilience, increasing responsiveness to hazardous events such as floods and drought

> **Data and information tool** gives access to/provides global satellite data including

current and forecasted climate information such as rainfall, temperature and evapotranspiration.

Water Safety Plans are recognised by the WHO and IWA as the most effective means of ensuring the safety and acceptability of drinking water supply.

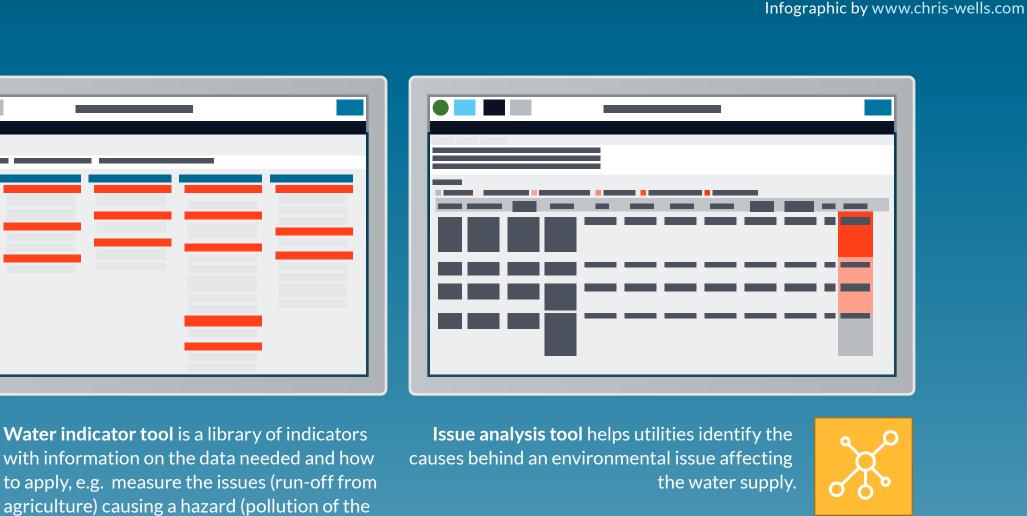
Infographic by www.chris-wells.com

Infographic by www.chris-wells.com

The Portal provides tools which can help utilities access and analyse climate information, select indicators

and priortise issues which can all be incorporated into planning approaches such as WSPs.

Impacts on the hydrological cycle due to environmental change are bringing increased changes in the timing and intensity of precipitation. This has a direct effect on available freshwater resources for utilities as it affects the flow of water in watersheds as well as its quality.



Understanding how to use and integrate climate information can help water utilities better prepare to address hazards that could threaten their operations. Infographic by www.chris-wells.com

Implementing a robust Water Safety Plan will deliver more impactful interventions as

water utilities become better prepared for climate hazards to ensure a safe and secure water supply.

For more information, contact ozj@dhigroup.com

> Or learn more at fdmt.iwlearn.org





Infographic by www.chris-wells.com

environment

This leads to the achievement of the targets set in the UN Sustainable Development Goals 6 and 13. To get started with the tools right now, register for free by visiting www.flooddroughtmonitor.com DHI, Oluf Zeilund Jessen IWA, Katharine Cross

Infographic by www.chris-wells.com katharine.cross@iwahq.org