

Responding to drought: Lessons from Spain

(a drama in three acts)

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A satellite-style image of Europe and Africa at night. The landmasses are illuminated from the left, showing topographical details and city lights. A bright, circular spotlight effect is centered on the southern coast of Europe, highlighting the Mediterranean region. The surrounding oceans are dark blue with some whitecaps. The text "#1. The South of the North" is overlaid on the left side of the image.

#1. The South
of the North



MINISTERIO
DE MEDIO AMBIENTE

CONFEDERACIÓN
HIDROGRÁFICA
DEL EBRO

Programa A.G.U.A.

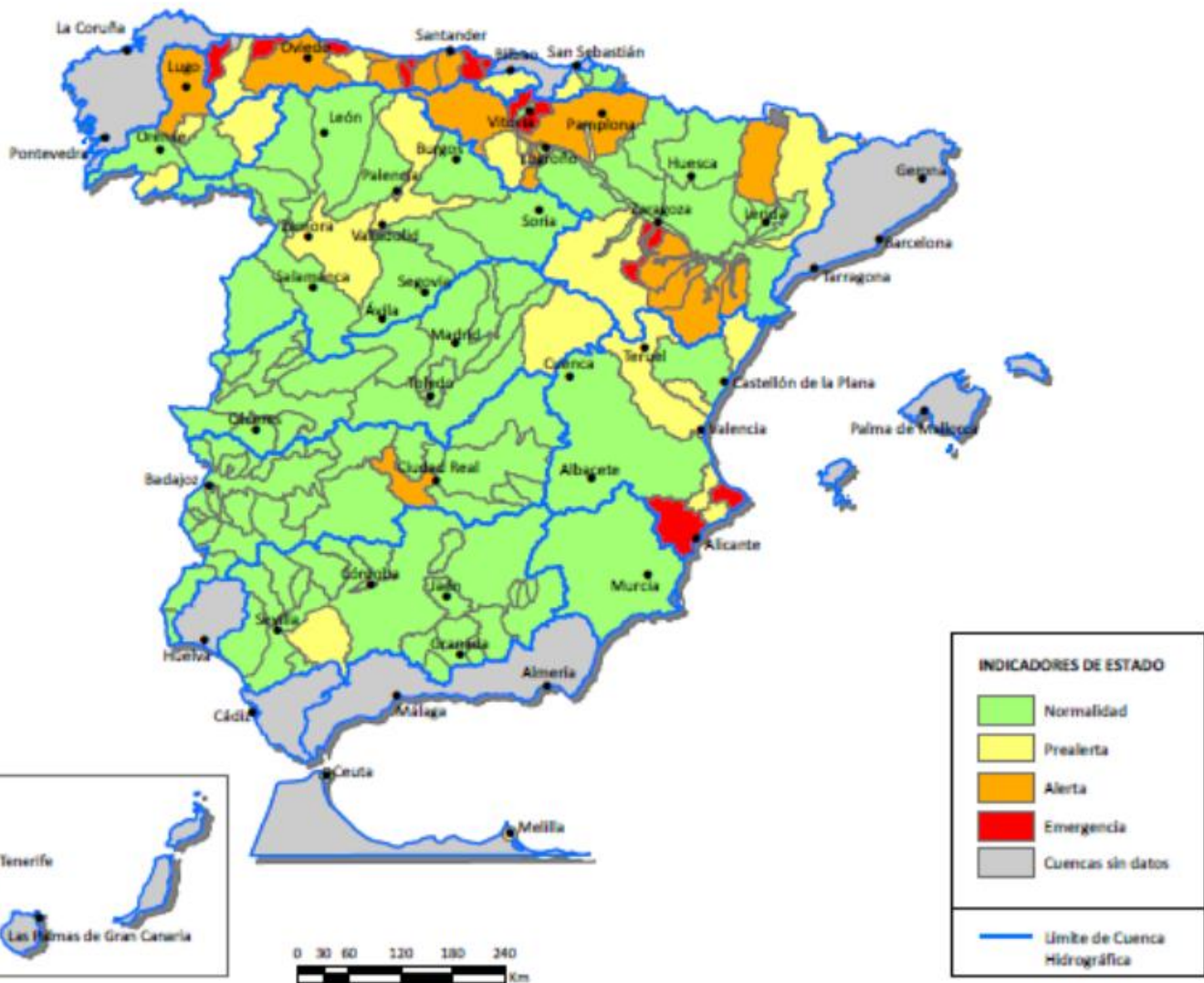
prensa

La Confederación del Ebro presenta el Plan Especial de Actuación en Sequía que cierra su proceso de Información Pública

- El presidente del Organismo ha presentado hoy el documento ante la Comisión Permanente de la Sequía

15 enero 2007

www.chebro.es



A wish list

- Transparency on decision making criteria
- More reliable and accessible data networks
- More reliable and timely drought impact assessments
- Higher resolution and timely analysis of policy support

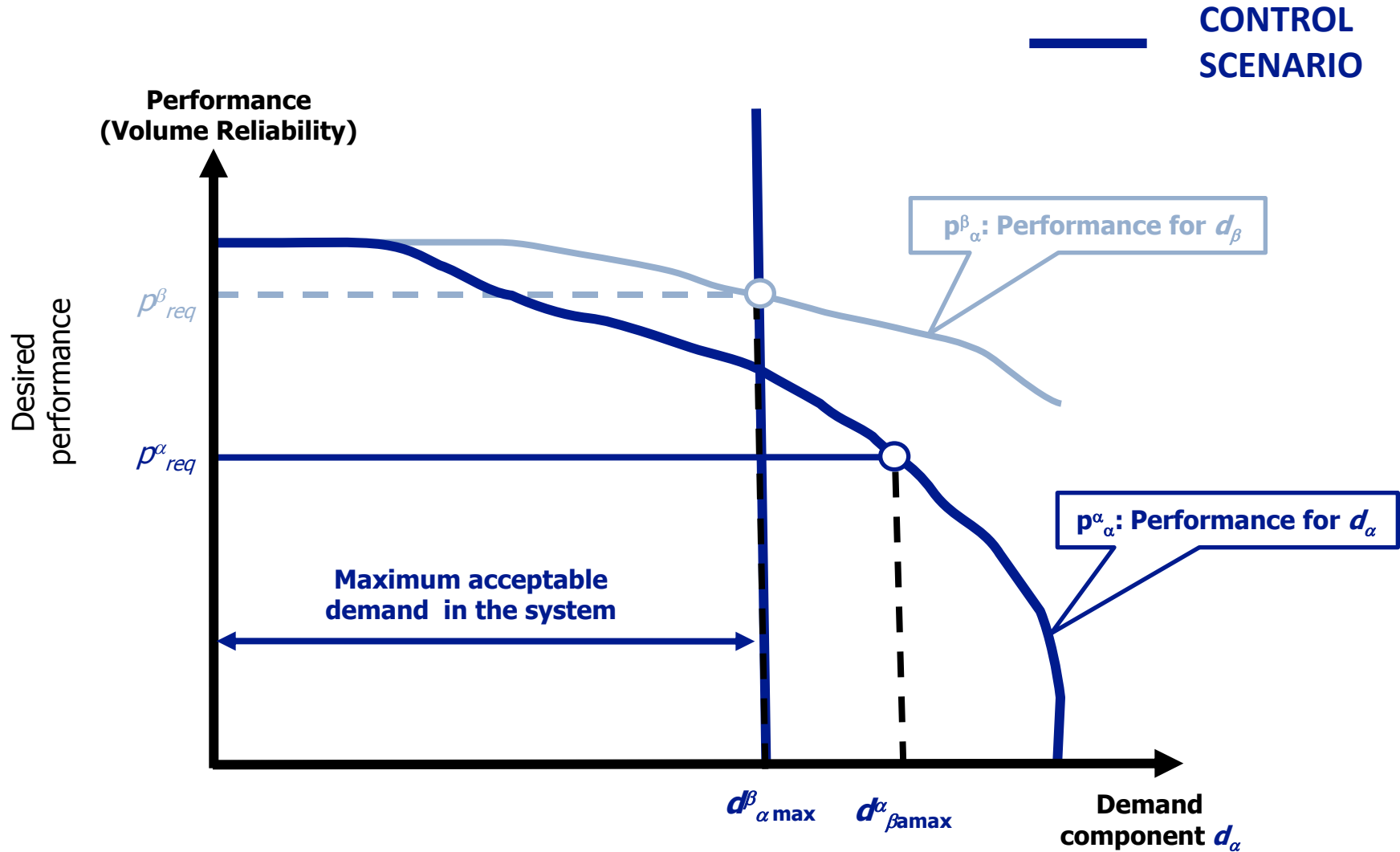
#2. Negotiations

Delivering drought management actions

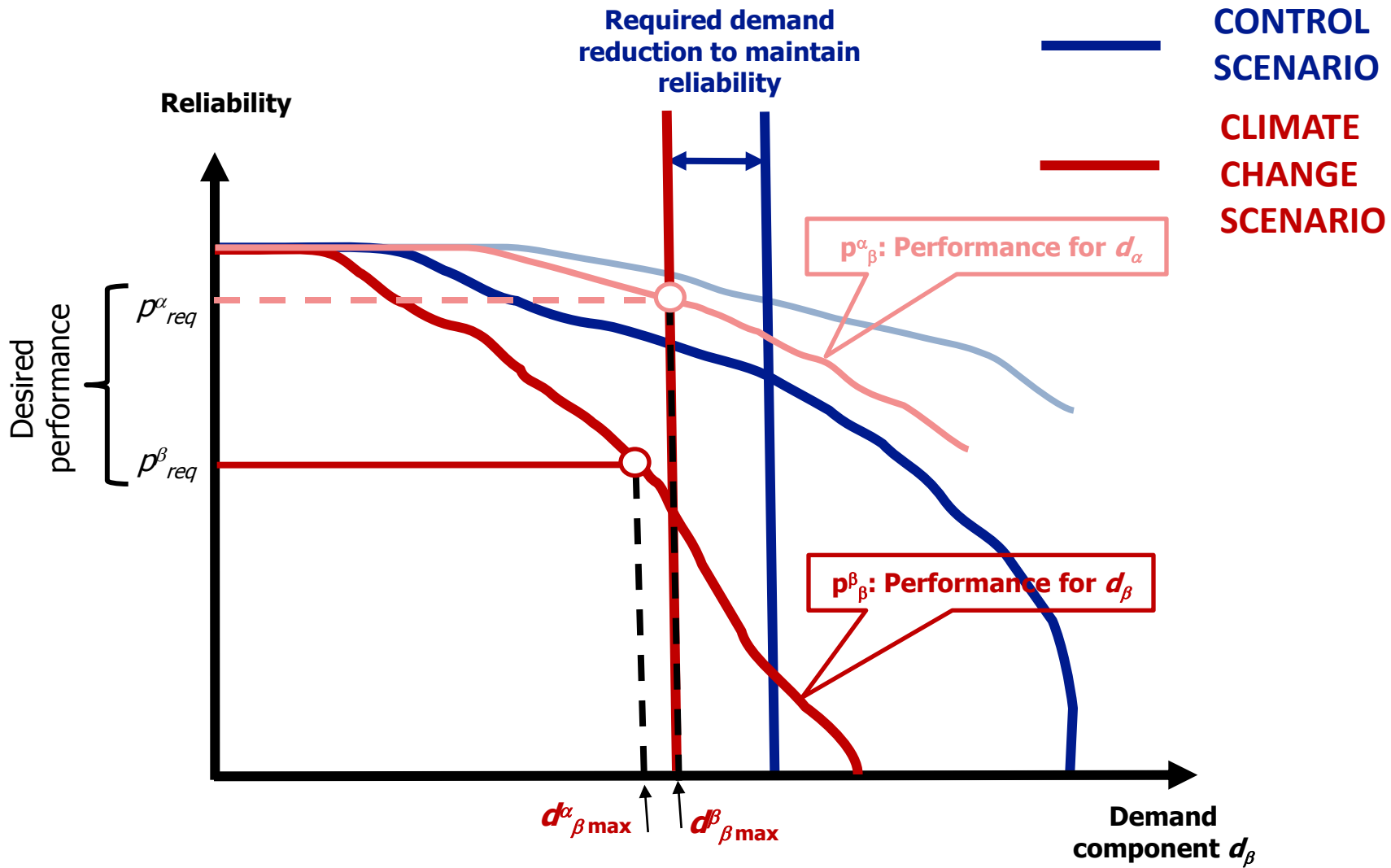


- Supported by policy
- Strategic combination of the water commitments for all sectors
- Changes in irrigation
- Flexible resource management and efficiency

Demand-Reliability Curve



Analysis under drought



3. Local realities



Define the strategies and their implementation

Permanent
measures

Measures
to be
implemented
during
drought

PERMANENT MEASURES

- Improve the situation (reduce vulnerability of the system)
- Examples:
 - Monitoring and early warning systems
 - Technology (water re-use)
 - Aquifer management
 - Increment supply
 - Agricultural insurance
 - Cooperation in policy development



PRE-ALERT actions

- Low cost, indirect, voluntary
- Non structural
- Directed to avoid worse situations
- Focus on communication

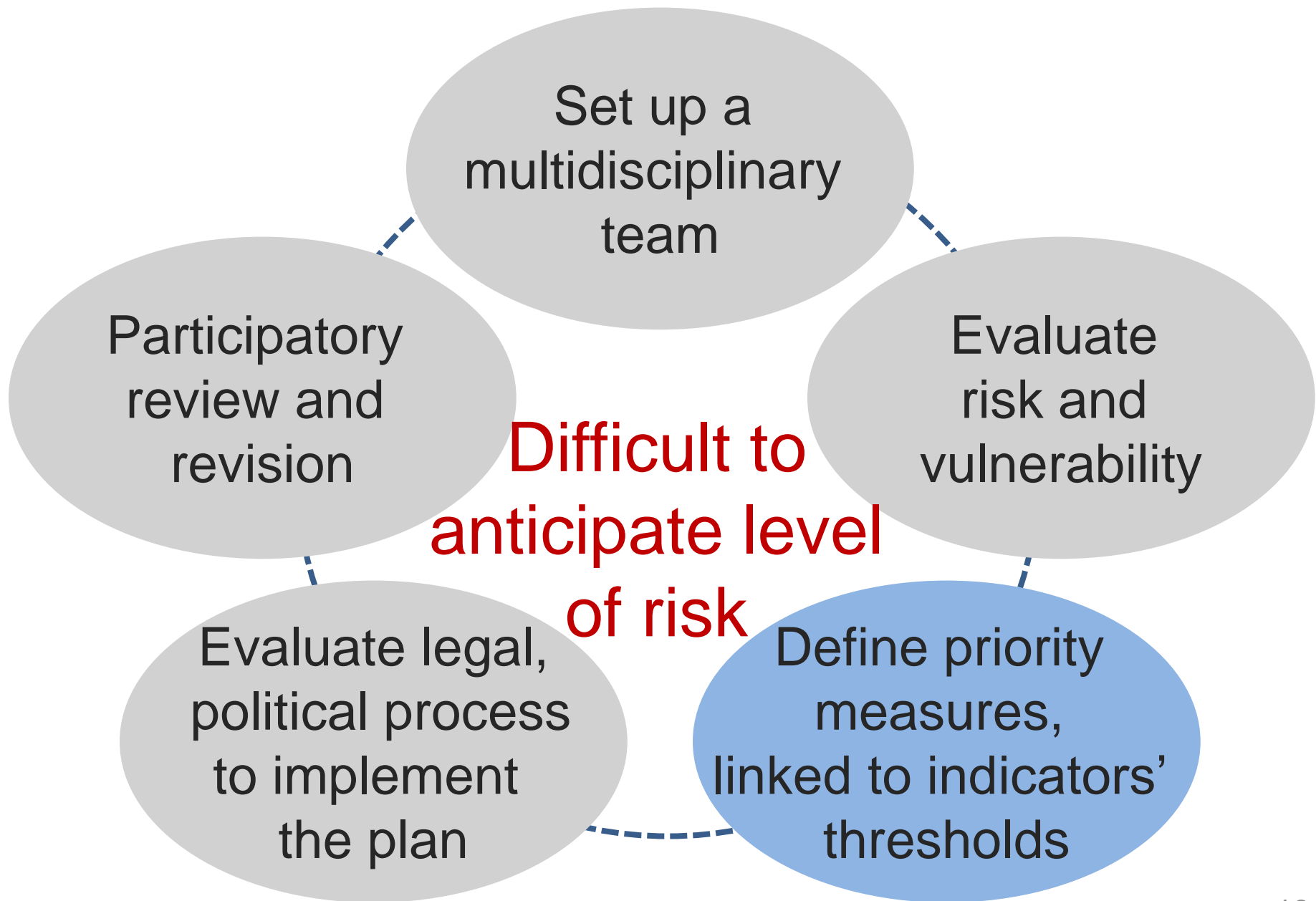
ALERT actions

- Overcome drought without reaching the emergency stage
- Examples:
 - Changes in management
 - Revision of tariffs
 - Rights Exchanging Centres



EMERGENCY actions

- Minimise impacts and reduce damage





Cobenefits, synergies, trade-offs

thank you

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Madrid, 29 January 2015