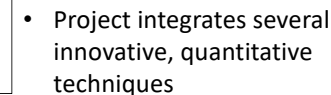
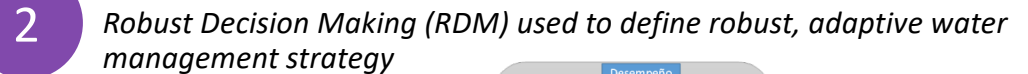
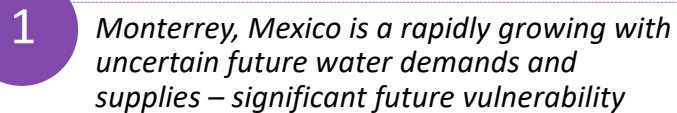


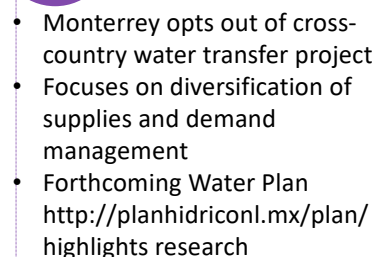
David Groves, RAND Climate Resilience Center
Edmundo Molina-Pérez, Tec of Monterrey
Steven W. Popper, RAND Corporation
Rodrigo Crespo, MTY Water Fund
Aldo Ramirez, Tec of Monterrey



4 Next, RDM identifies optimal adaptation pathways for each plausible future

-
- The diagram illustrates the water distribution network for the period 2016-2026 to 2039-2050. It shows the flow of water from various sources (P1, P2, P3, P4, P5, P6, P7, P8, P9, P10, P11, P12, P13, P14, P15, P16, P17, P18, P19, P20, P21, P22, P23, P24, P25, P26, P27, P28, P29, P30, P31, P32, P33, P34, P35, P36, P37, P38, P39, P40, P41, P42, P43, P44, P45, P46, P47, P48, P49, P50, P51, P52, P53, P54, P55, P56, P57, P58, P59, P60, P61, P62, P63, P64, P65, P66, P67, P68, P69, P70, P71, P72, P73, P74, P75, P76, P77, P78, P79, P80, P81, P82, P83, P84, P85, P86, P87, P88, P89, P90, P91, P92, P93, P94, P95, P96, P97, P98, P99, P100) to various destinations (R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R66, R67, R68, R69, R70, R71, R72, R73, R74, R75, R76, R77, R78, R79, R80, R81, R82, R83, R84, R85, R86, R87, R88, R89, R90, R91, R92, R93, R94, R95, R96, R97, R98, R99, R100). The diagram includes flow rates in m³/s and m³/d, and a timeline from 2016-2026 to 2039-2050.

- Different “pareto optimal” portfolios with respect to “reliability” and “cost”
- Stakeholders identify acceptable trade-off



Developing a Robust and Adaptive Water Management Strategy for Monterrey, Mexico

David Groves, RAND Climate Resilience Center
Edmundo Molina-Pérez, Tec of Monterrey
Steven W. Popper, RAND Corporation
Rodrigo Crespo, MTY Water Fund
Aldo Ramirez, Tec of Monterrey



1 Monterrey, Mexico is a rapidly growing with uncertain future water demands and

2 Robust Decision Making (RDM) used to define robust, adaptive water management strategy

Notable aspects:

1. Use of Robust Decision Making in Mexico water planning

2. Integration of optimization tools to identify components of a robust strategy

3. Development of robust, adaptive water resources strategy

4. Demonstration of *DMDU impact!* Project has changed the trajectory of water management in Monterrey.

- Different optimization with reliable
- Stakeholders identify acceptable trade-off



<http://planhidrico1.mx/plan/>
highlights research

