

Social Science Contributions to Disaster Risk Management in Algeria

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Disaster Risk Management**
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@DRRDynamics



**KEEP CALM
AND REPEAT AFTER ME...
DISASTERS
ARE NOT
NATURAL**

$$R = [(H \times V/C) - M]$$

- **R = Risk**
- **H = Hazard**
- **V = Vulnerability** (a function of susceptibility to loss and exposure)
- **C = Capacity** to resist, cope with and recovery from the hazard impacts
- **M = Mitigation** and social protection

Social Science Contributions



- **R Risk** -- perception, decision making
- **H Hazard** -- hazard ranking, daily risk
- **V vulnerability** -- groups at risk
- **C Capacity** – knowledge & participation
- **M Mitigation** – governance

Social Science Contributions to Understanding Risk in Algeria

- **Psychology**
- **Sociology**
- **Economics**
- **Human geography**
- **Anthropology**
- **Public administration**
- **Development studies**



- **Risk** -- perception, decision-making
- **Hazard** -- ranking, daily risks
- **Vulnerability** -- groups at risk
- **Capacity** – knowledge & participation
- **Mitigation** – governance
- **Psychology & Sociology**
- **Anthropology**
- **Economics**
- **Human geography**
- **Development studies**
- **Public administration**

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Common Vulnerable Groups

- § **women** generally, **pregnant** women
- § **children** generally, **new born** infants
- § **elderly people**, especially isolated widows and widowers
- § **low income people** and households with little or no savings
- § **self-employed** with no insurance to cover their equipment and materials
- § **small business** owners and employees
- § **recent migrants** not familiar with or eligible for government and other support and social protection

Heat Wave



Drought



Livestock & Shepherds



Co-production of Knowledge & Risk Communication



Citizen Science

...and this thing, if it does indeed exist, offers enlightenment, hope, and the potential to unlock the mysteries of the universe to all people? Sounds very powerful and maybe too dangerous to be trusted to the masses. What did you call it again?

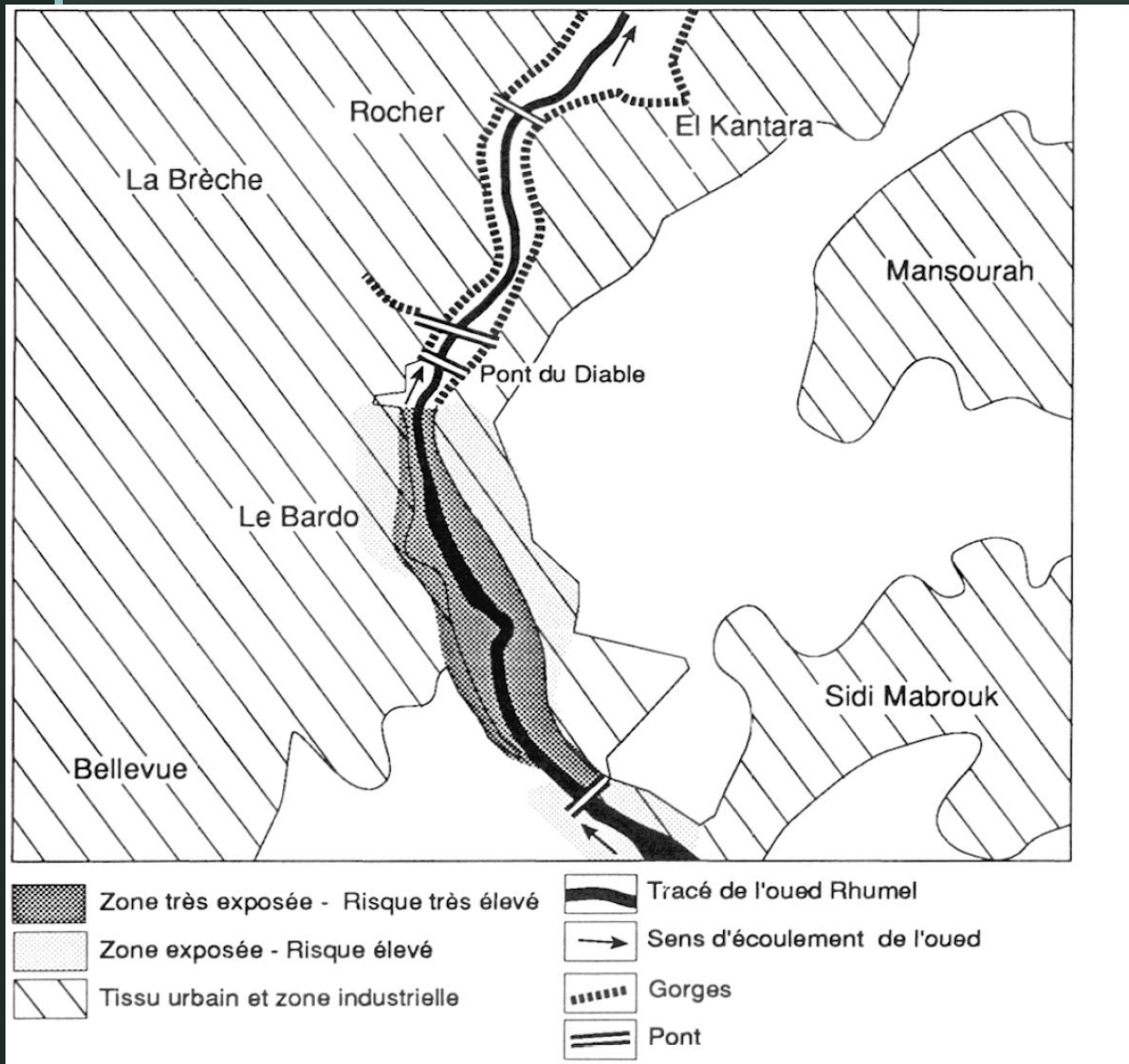


20 September 2018 Flooding in near Constantine

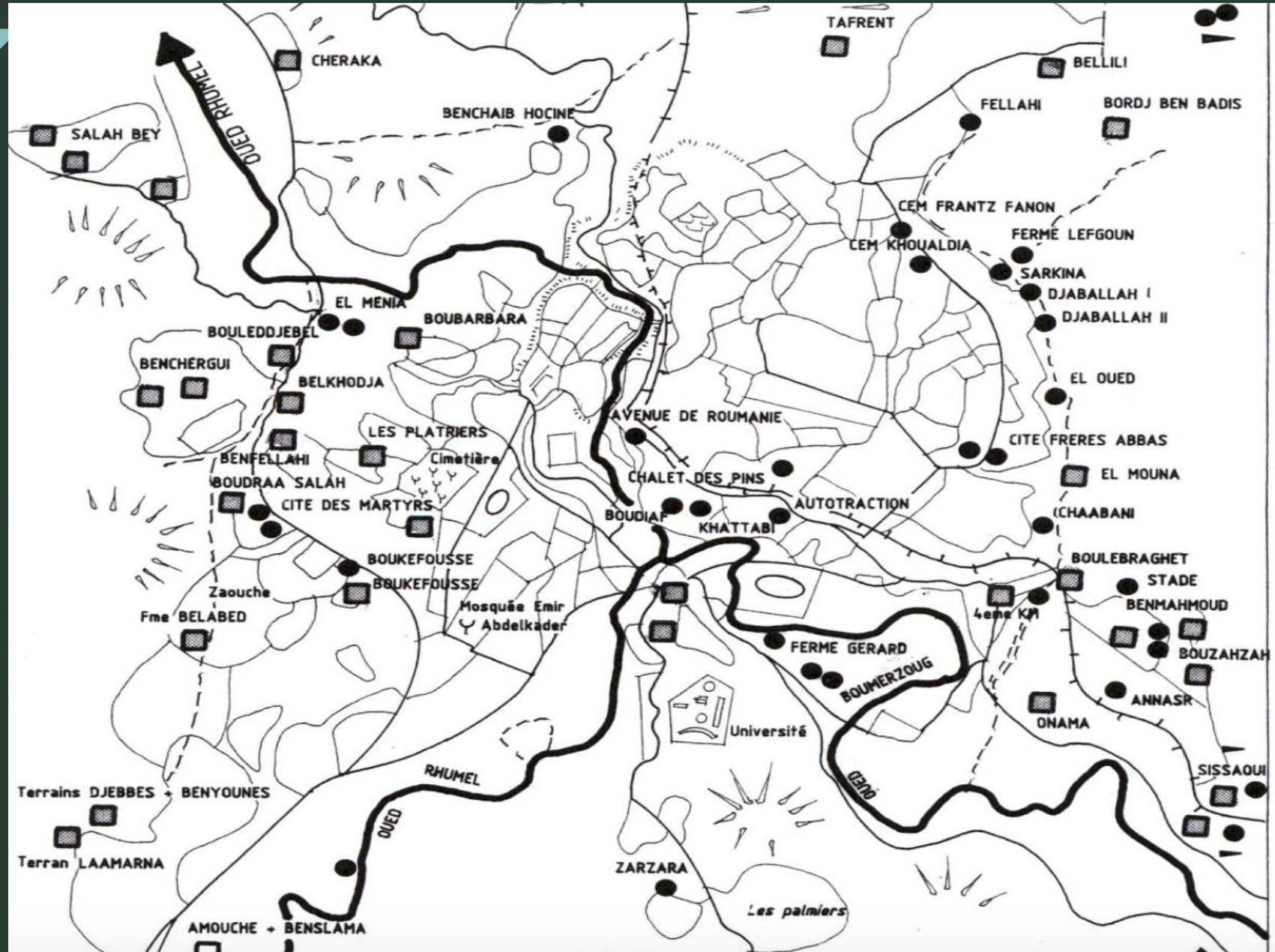


Oued Rumel Flood Risk Map

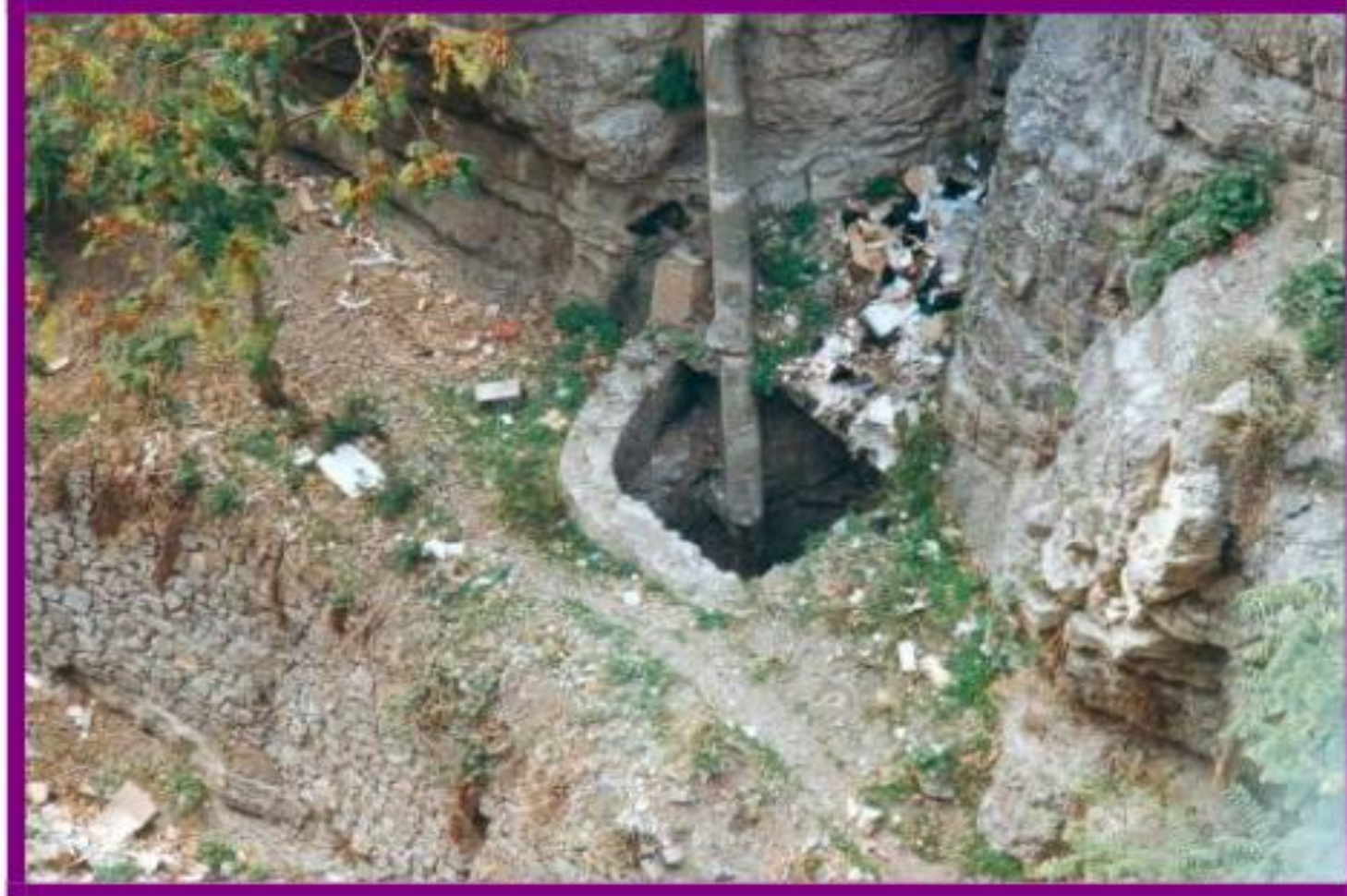
A View of Le Bardo



“Bidonvillisation” in Constantine



Improper Waste Drain into Oued Rumel (Adila, 2018)



Social Science would ask Residents...

- Why do you live where you do?
- What alternatives are there?
 - Did you not qualify for re-housing?
 - Are you still waiting?
 - Re-housing not acceptable?
 - Why not?
- Benefits the present site?
 - Cost?
 - Proximity of employment?
 - Proximity of services?
 - Family and social networks



Seven Vulnerability Factors in Algeria (Benouar, 2015)

- (1) **Insufficient resources** for disaster risk reduction
- (2) **Unplanned urbanization**
- (3) **Settlements within high risk zones**
- (4) **Lack of compliance to building codes**
- (5) **Deficient urban management practices**
- (6) **Unpreparedness** to confront disasters
- (7) **Poor quality of workmanship** (lack of training)

THANK YOU!

