



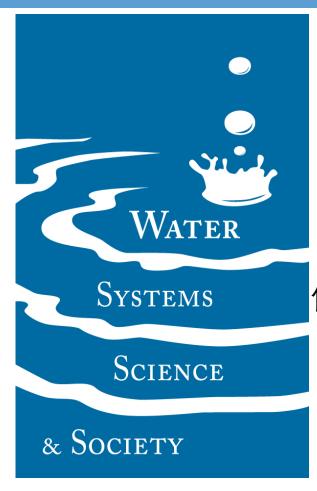
International Resilience research & Policy/practice

Director Astier M. Almedom



THE FLETCHER SCHOOL

Workshop on Integrated Water Resources Management 水资源综合管理研讨会



Traditional water resource management, human health and social-ecological systems resilience

传统的水资源管理、人类健康以及社会生态系 统的恢复力之间的联系

(塔夫斯大学法律及外交学院教授)

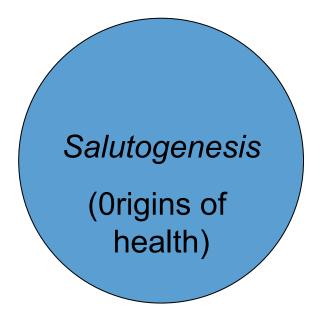


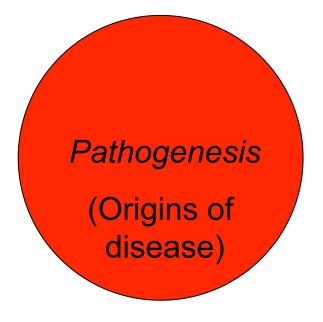
Human health and Social-ecological (systems) Resilience

- Concepts & Definitions
 - Health
 - Social-ecological resilience
- Measurement/Assessment tools
- Focus on water and human health
- Policy/practice implications



Resilience: Theoretical Underpinnings







Dynamics of 'Health' and 'Resilience'

Ease _____ Dis-ease Adaptive

Commitment Alienation

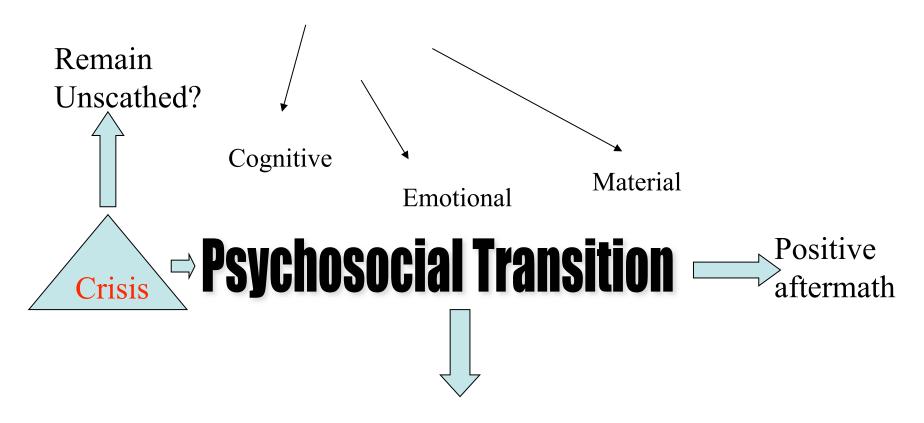
Resilience Vulnerability

Resilience

 a multi-dimensional construct defined as the capacity of individuals, families, communities, and institutions to anticipate, withstand and/or judiciously engage with catastrophic events and/or experiences; actively making meaning out of adversity, with the goal of maintaining normal function without losing identity. (Almedom 2008)



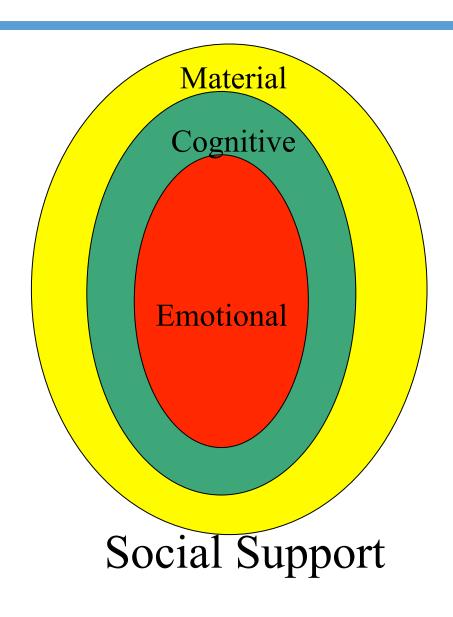
Social Support: types and timing determine impact



Negative aftermath

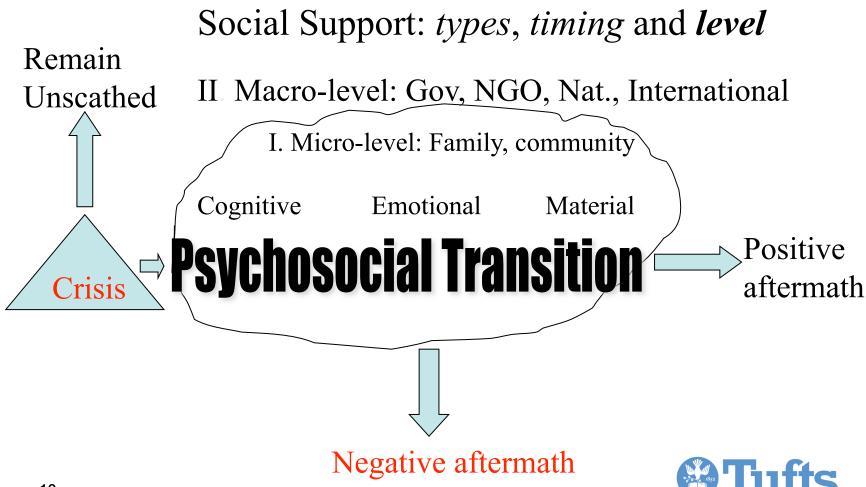


Social Support: types





Psychosocial Transition — an integrated model (Almedom, 2004)



Sense of Coherence (SOC)

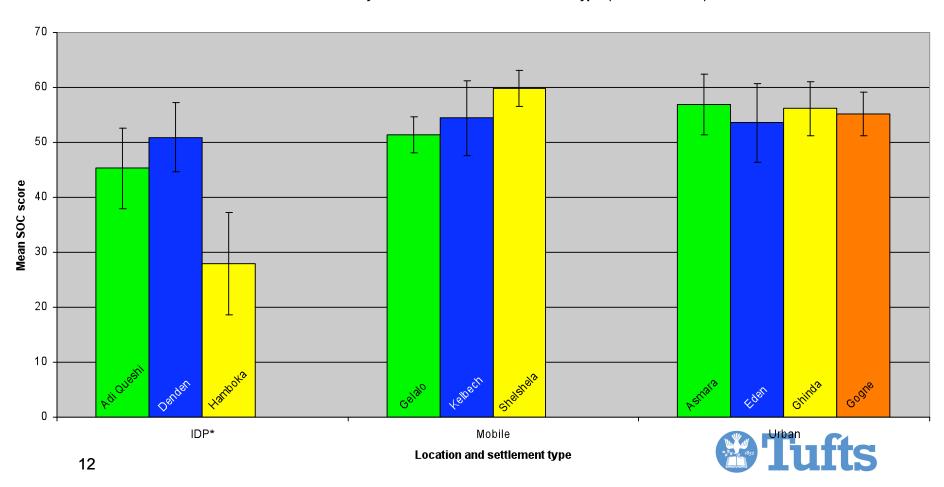
- a global orientation that expresses the degree to which one has a pervasive, enduring though dynamic feeling of confidence that engaging with adversity is...
 - i. Manageable
 - ii. Comprehensible
 - iii. Meaningful

Antonovsky, 1987 (paraphrased)

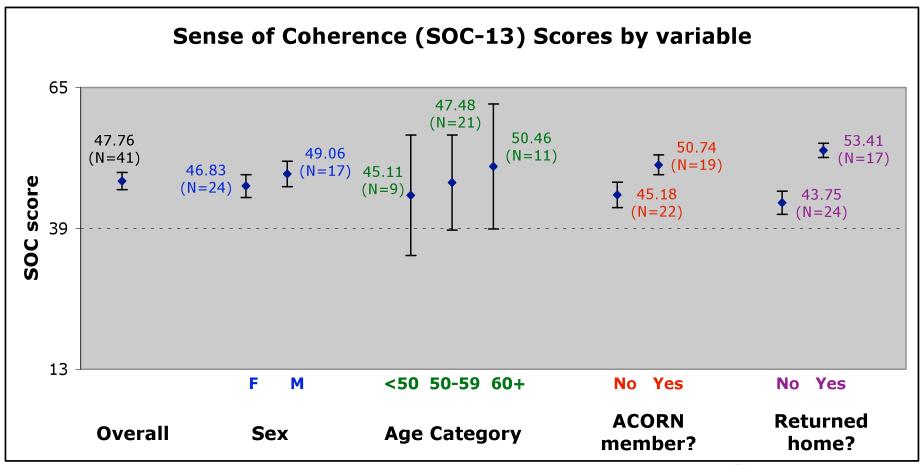


Measuring Resilience using the Sense of Coherence (SOC-13) Scale in Eritrea

Mean SOC scores by location nested in settlement type (N=157 women)



Sense of Coherence in NOLA, Lower 9th Ward & surroundings (March 2007)



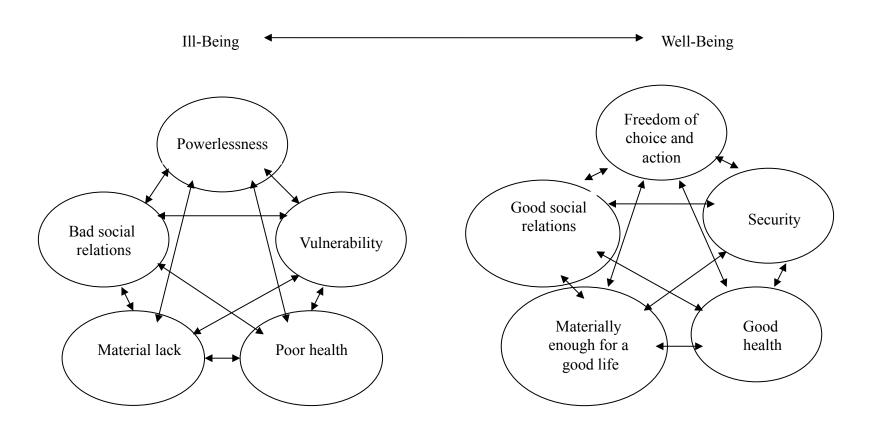


My indicators of Resilience...

- Social support type; timing; level
- Social capital shared norms & values; Reciprocity; Trust; civic participation;
- Sense of Coherence manageability, comprehensibility, meaningfulness (of engaging with adversity)
- Ecological, historical, geo-political, economic context - narratives
- Institutional/organizational innovation; Flexibility;
 Adaptability to change managing critical transitions without fundamental loss of identity

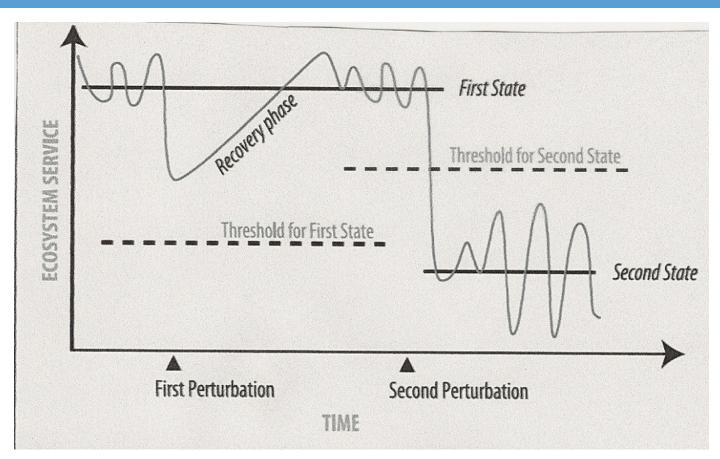


Millennium Ecosystem Assessment (2005) Ecosystems and Human Well-Being





Resilience of Ecosystem Services (measured over time – "recovery time")



Source: Millennium Ecosystem Assessment, 2005



THANK YOU & Questions please

- Our study participants
- My team of researchers/practitioners, associates
- Eritrean government Ministry of Health & CDC
- Tufts University (European Center; IGL-Merrin family and Luce Program; Graduate School of Arts & Sciences; Tufts Institute of the Environment);
- Universities of Bologna, London (Kings College), Warwick;
- UK government, HPA
- Henry R. Luce Foundation
- The Christensen Fund

