The geo-strategic value of vegetation cover



«Europe»... what a weird idea



One more identity for the **«old** continent»



FAST AND SLOW ONSET ENVIRONMENTAL EPISODES AND SOCIETAL IMPACTS

Extreme weather events



Fast, localized, clearly definable, environmntal causes for forced displacements

Progressive, large scale, climate patterns shifts



«accelerators» of poverty, societal disruption, conflict



Chain-pressure, multicausal migration and destabilization dynamics

Impacts of climate change on populations

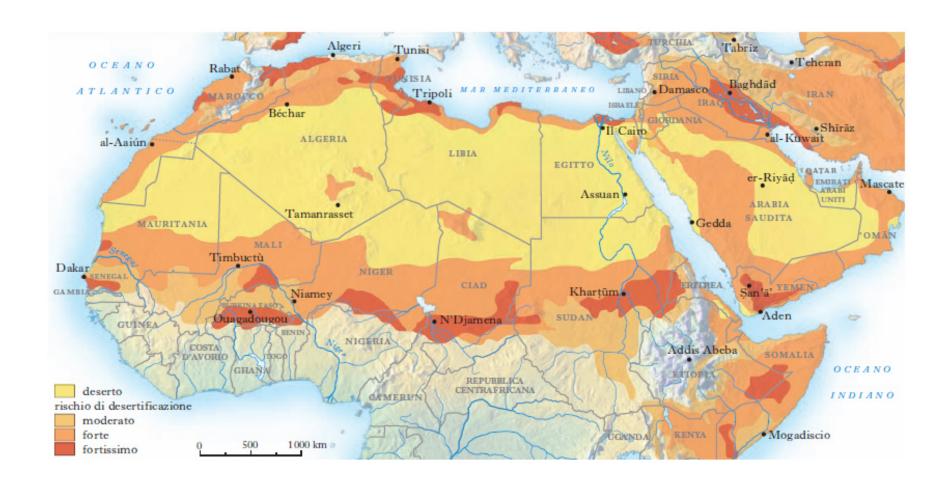
3 KINDS

On human health...

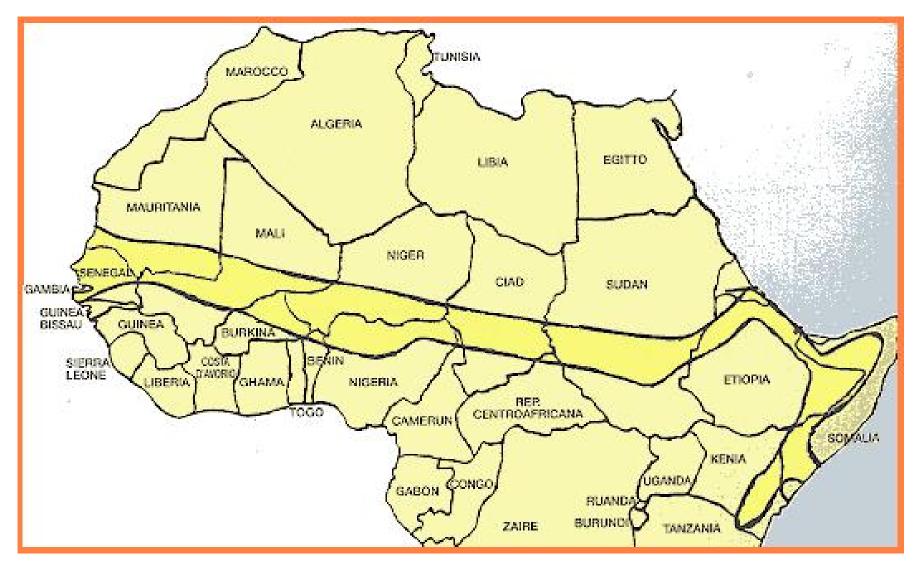
On infrastructures, and...

DE-REGULATING THE ECOSYSTEM CLOCK

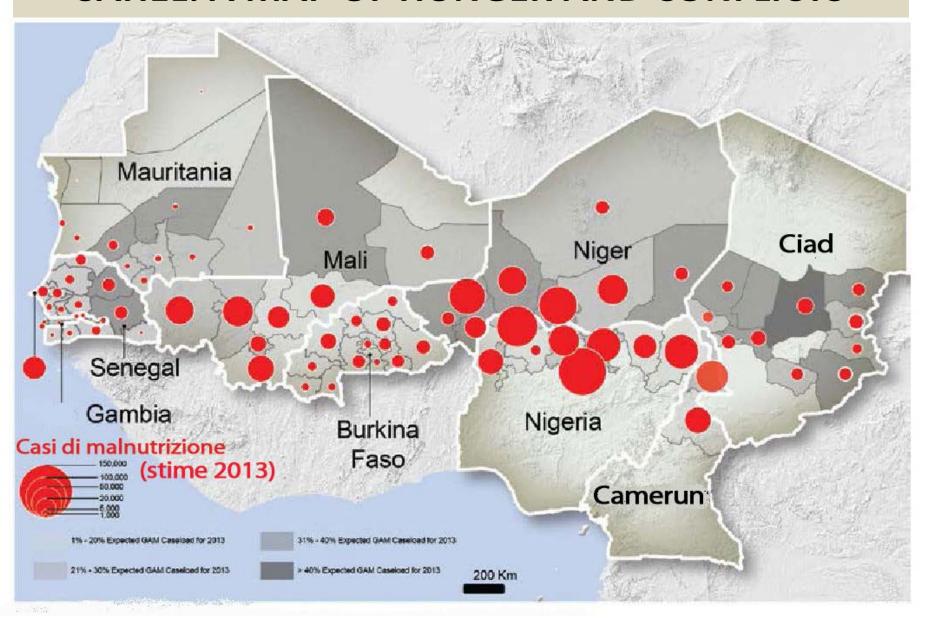
The energy equivalent of 400.000 Hiroshima bombs/day randomize ecosystem services and produce impredictability



Sahel: the Active Zone, where climate change induces desertification

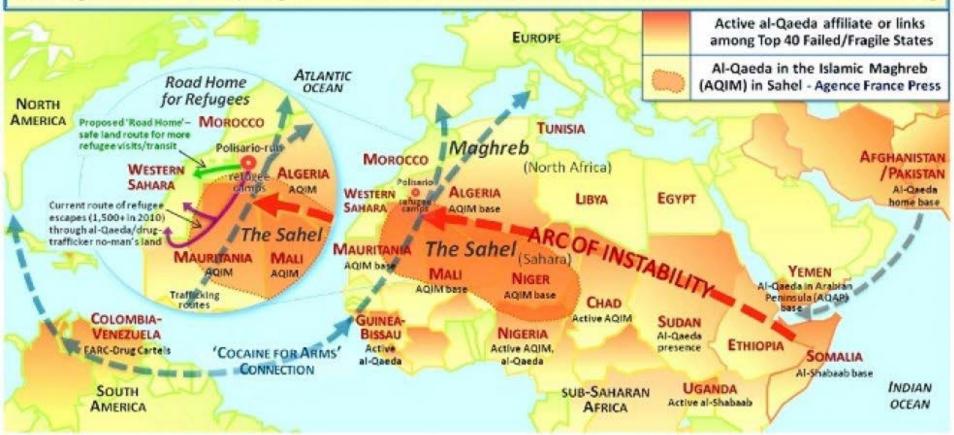


SAHEL: A MAP OF HUNGER AND CONFLICTS



TERRORISM HOT SPOT: AL-QAEDA CASTS SHADOW OVER THE SAHEL

Traces path across Failed/Fragile States, Links with Cartels at new Crossroads of Terrorism & Trafficking

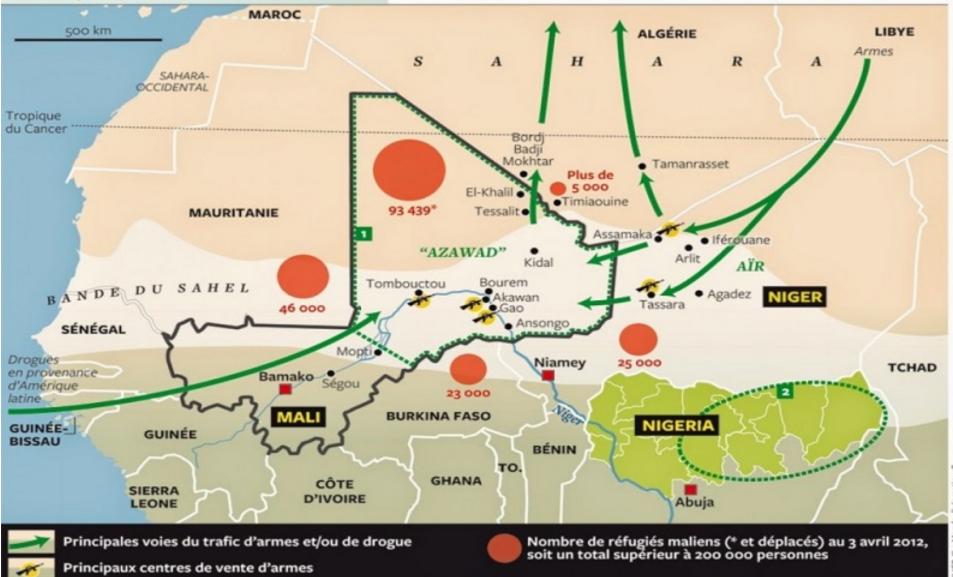


ICTS – International Center for Terrorism Studies, Potomac Institute for Policy Studies – January 2011

L'Afrique sahélienne en ébullition

Zone revendiquée et contrôlée par le Mouvement national

de libération de l'Azawad (MNLA)



Zone d'action de la secte

islamiste Boko Haram

Les 12 Etats nigérians

qui ont adopté la charia

MIGRATIONS



1. THE ENVIRONMENT – STABILITY NEXUS

ENVIRONMENTAL MODIFICATIONS CAUSE THE CONTRACTION, LOSS OR DISPLACEMENT OF ECOSYSTEM SERVICES... AND RANDOMIZE THEM:

Productivity, but also purification, bio-sanitary, local climate regulation services, and others, that extend to include empowerment and cultural identity services

NOT ONLY PERMAFROST, ALBEDO ETC... THE WORST FEEDBACK LOOP: NATURE – MANKIND - NATURE

environmental stress



social cohesion collapse and conflict

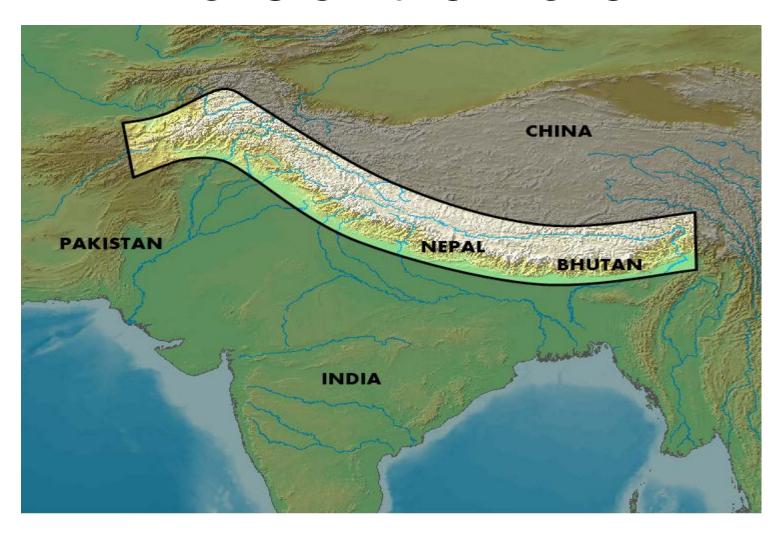


loss of mitigation and adaptation capability



more environmental stress

THE HIMALAYA SCENARIO Millions on the move...



3. ENERGIES AND SYNERGIES: WHY COOPERATE FOR LAND RECOVERY

The perception of the environmental challenge is focused on replacing fossil fuels, an indeed essential line of intervention both in rich and poorer areas

(food – water - energy nexus, access to off-grid supply by renewables, etc.)

But...

The Value of Our Lands

- The costs of recovering **one acre** of degraded land are variable, ranging from 80U\$ in semi-degraded fertile areas to 22.000U\$ for complex coastal biomes
- In most of the lands where the degradationinsecurity-migration nexus is emerging, the cost is around 200 U\$
- There, recovery of each acre turns it into a very effective "carbon well" and...

And an effective investments multiplier...

The recovery of lands – especially if they are given to trained small scale family farmers- leads to:

- create effective carbon absorption mechanisms,
- protect biodiversity, water balance, local climate mitigation
- restore productivity,
- an agricoltural surplus that enables manufacturing activities,
- local family and gender empowerment,
- a stronger civil cohesion and lessened migratory impulse,
- lifestyles and dignity dimensions that delegitimate fanatisms
- valorize traditional know how, modernize it, strenghtening local identity

ONLY ONE STRUCTURAL WAY OUT: MAKING NATURE A SOURCE OF PREDICATABLE INCOME THROUGH ECOSYSTEM/LAND BASED APPROACHES

- Forestry
- Agro-forestry
- Agro-biodiversity
- Watershed management... In general, with local specific variations like keeping shepherds in the Asian Mountains, mangroves to halt islands' erosion etc.

Daily updates and sources...

I pensieri di Gaia

- Gaia's thoughts



