



# Integrated landscape management. How to disseminate the obvious?

Luiz Oosterbeek, 19.03.2015



# In the endless reaches of the universe...

- ▶ Jor-El, a scientist of the planet Krypton, foresaw the end of the planet and that culturally free naturally born children, moving into other planets, could be the hope for a lasting future.
- ▶ Yet, mating and giving birth was deemed as heresy by Krypton's authorities.
- ▶ Planet Krypton, by then, did not have an integrated approach to landscape management
- ▶ Only Kal-El, Superman, survived, to become, in 1939, a supplier of the welfare State, facing the great depression and the extreme financial capitalism that generated it, as well as racism and xenophobia.
- ▶ Planet Earth, by 1939, also did not have an integrated approach to landscape management



# And now for something complete different!

- ▶ Building from global awareness
- ▶ Building from disciplines and beyond:
  - ▶ Geography
  - ▶ Anthropology
  - ▶ Archaeology
  - ▶ History/Heritage
  - ▶ Economics
  - ▶ Urbanism
  - ▶ Law
  - ▶ Philosophy



# Never forget the dark side of the moon!

- ▶ Geography ▶ Space, distance and time
- ▶ Anthropology ▶ Identity and conflicts
- ▶ Archaeology ▶ Material culture and alienation
  - ▶ History ▶ Narratives and oblivion
  - ▶ Heritage ▶ Landscape markers and domination
- ▶ Economics ▶ Growth and social divides
- ▶ Urbanism ▶ Quality and entropy
  - ▶ Law ▶ Individual and collective conflicting rights
  - ▶ Philosophy ▶ Reason, ethics and manipulation
- ▶ Communication ▶ Significance and propaganda

# Topics

- ▶ Foresight and uncertainty
- ▶ The current state of affairs
- ▶ Cognitive capacities and human behaviour
- ▶ Towards governance
- ▶ Measuring culture change
- ▶ Framing the role of Humanities
- ▶ From warfare planning towards strategic planning
- ▶ Integrated Landscape Management



# Foresight and uncertainty

- ▶ Past cycles
  - ▶ Trade
  - ▶ Urban/Rural
  - ▶ Products vs Services Economy
  - ▶ Climatic/Environmental
  - ▶ Mobility
  - ▶ Ageing
  - ▶ Isolation/Globalization
- ▶ From problems to dilemmas
- ▶ Resilience: territory, diversity, human capital



# 3D Crisis 1: disruption

- ▶ The third long term depression
  - ▶ geo-strategic major changes
  - ▶ disruption of the international monetary system,
  - ▶ economic growth through technology and jobs sparing
  - ▶ growing gap between technological innovation and human scale mobility
  - ▶ climatic changes implying environmental disruptions
  - ▶ instability and uncertainty



# 3D Crisis 2: dispersion

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- ▶ **Decay of current socialization structures**
  - ▶ churches, political parties, schools, sport teams, private corporations, national states...
- ▶ **Nihilism and short term thinking.**
  - ▶ Humans' basic life conditions are disarticulated
  - ▶ Hyper-urbanization is a sign and a consequence



# 3D Crisis 3: de-socialization



- ▶ Loss of learning efficient mechanisms
- ▶ Loss of participation in the tangible causal sequences
  - ▶ Recovery of magic causal explanations
  - ▶ Retreat of rational notions of space, time and cause
- ▶ Loss of identities, merged into “mob” populist moves

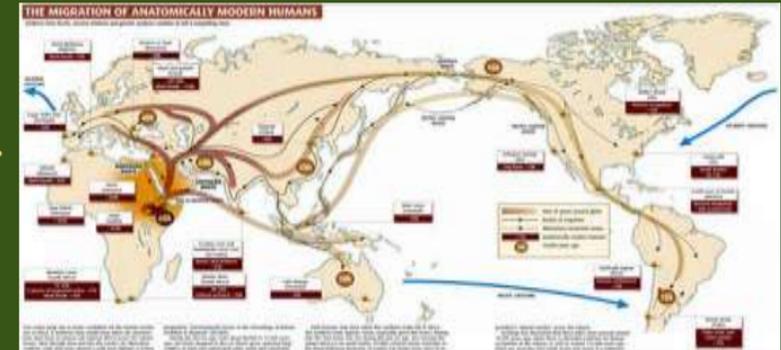
# Beyond recession

- ▶ Ageing + population reduction = reduction of resilient GRP
  - ▶ Sign: finance prevails over economy, i.e., the virtual and the means prevail over the tangible and the aims
  - ▶ Sign: knowledge alienation,
  - ▶ Sign: networks entropy
  - ▶ Sign: resources exhaustion



# Are we in a growing population trend?

- ▶ The new trend: demographic decay and genetic degradation
  - ▶ Back to Africa?
- ▶ Population stability necessarily means either ageing (announcing decrease) or child mortality (announcing growth).
- ▶ Population decay occurred in the past on occasions
  - ▶ e.g. in ancient Rome or in the last period of the Mesoamerican Maya's civilization, urban concentration, rural depopulation, ageing in the cities, birth decay, loss of jobs or prevalence of individual interests, were also present.



# Nomads once again?

- ▶ **Mobility grows**
  - ▶ 45,2 million refugees
  - ▶ 280 million migrant workers
  - ▶ 1 billion tourists
  - ▶ About 2 billion that will need to move in the decades to come!

- ▶ **Previous non global exodus due to:**
  - ▶ Desertification and water shortage
  - ▶ Climatic and environmental changes
  - ▶ Land surface reduction
  - ▶ Complexity of communications
  - ▶ Wars and hunger



2000-2013 world migrants

# The 3rd global depression

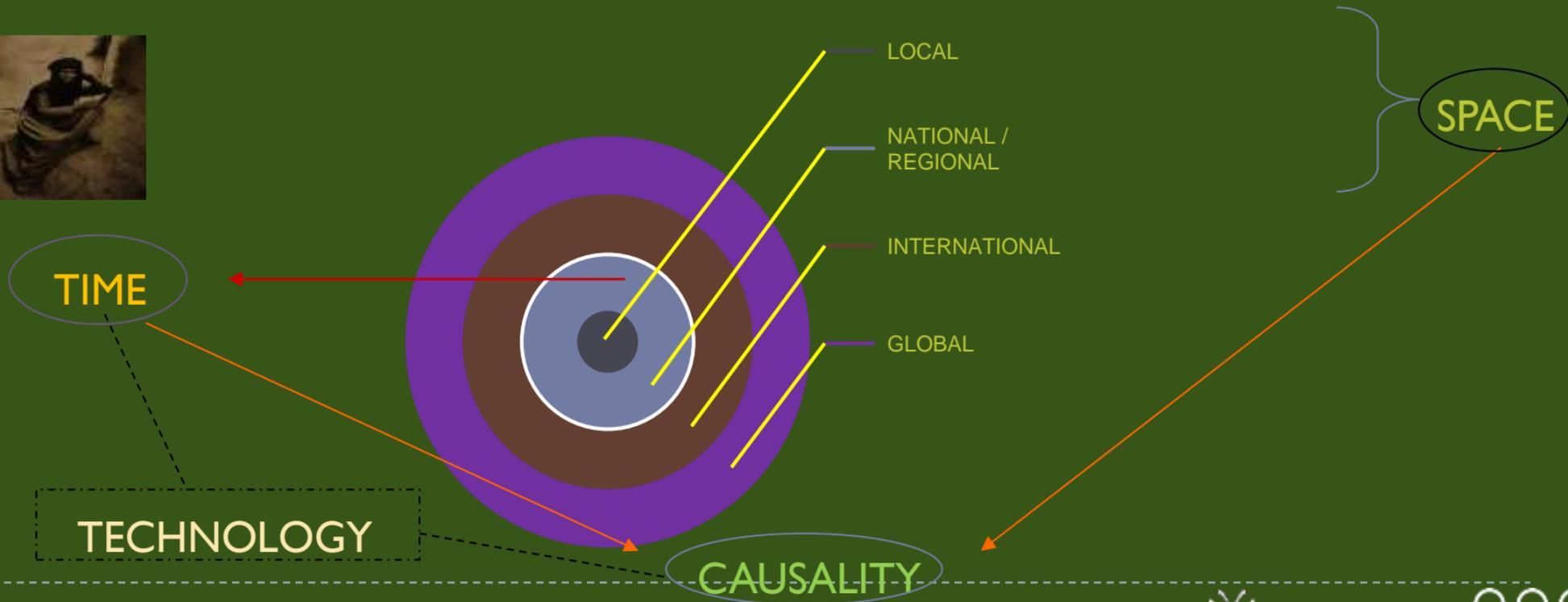
- ▶ The nature of the crisis
  - ▶ Third modification of the global economy polarities
  - ▶ Economic growth based on technology and loss of jobs
  - ▶ Growing cultural interaction, generating new understandings, but also new values and xenophobia
  - ▶ Global impact (USA and Europe + Asia, Brazil,...)
- ▶ Changing values
  - ▶ Human rights, European Union...Heritage
- ▶ Recent past ways-out
  - ▶ 1783-1996 – Social State (Bismarck) and market growth with the colonies
  - ▶ 1929-1949 – New Deal, Marshall plan and market growth with independence of colonies and the Bretton Woods agreement

▶ Economic growth generates less jobs

▶ The turn will be on promoting peaceful cultural knowlege (S&T) interaction, through the Humanities



# Cognitive capacities and human behaviour



# Towards governance

- ▶ Governance is a function of the cultural product of the additive temporal accumulation of the ratios between environmental resources and available technologies and between logistic distributive networks and social access to them

$$f(G) = K \sum_{n=1}^{\infty} \left( \frac{Env}{Tec} + \frac{Log}{Soc} \right)$$

- ▶ Global issues are perceived as local problems by individuals. One must build from individuals' concerns

# Measuring culture change

- ▶ The key component of governance is knowledge
  - ▶ Abstract knowledge reasoning on causality (awareness)
  - ▶ Applied knowledge connecting needs and resources (logistics)
  
- ▶ Cultural knowledge (k) is a time (t) product between gesture (m) and technology (y)

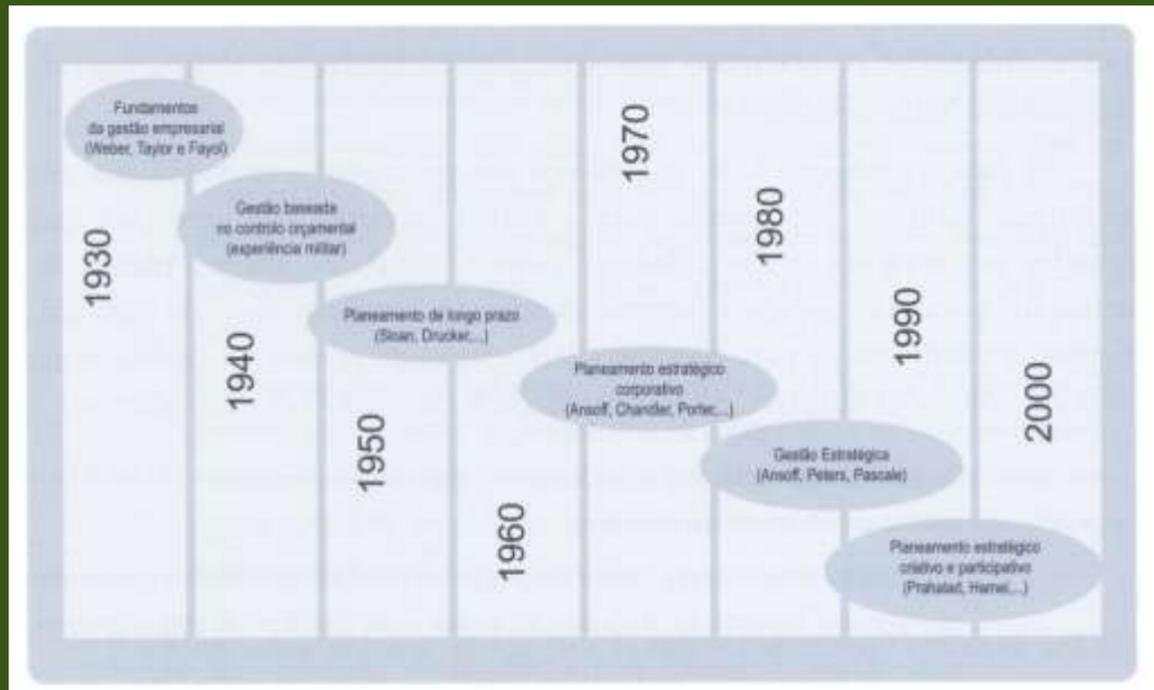
$$K=t(my)$$

# Framing the role of Humanities

- ▶ Distinguishing territory from landscape
- ▶ Landscape: what we perceive; a cultural insight into the TBL clusters, selecting some variables (e.g. HERITY)



# From warfare towards strategic planning



- ▶ Business orientation (Great Depression)
- ▶ Budget Control (WW2)
- ▶ Mid term Planning (USSR influence)
- ▶ Corporative LM (1968-69 crisis)
- ▶ Strategic LM (URSS colapse)
- ▶ Participation (multicentred world)
- ▶ ILM

Source: F. Ferreira, *Gestão Estratégica de Cidades e Regiões*, 2007



# Rio+20 advances

Ensuring a sustainable future in the face of inter-connected, human-induced challenges facing the Earth system urgently requires new knowledge and a new relationship between science and society



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United Nations  
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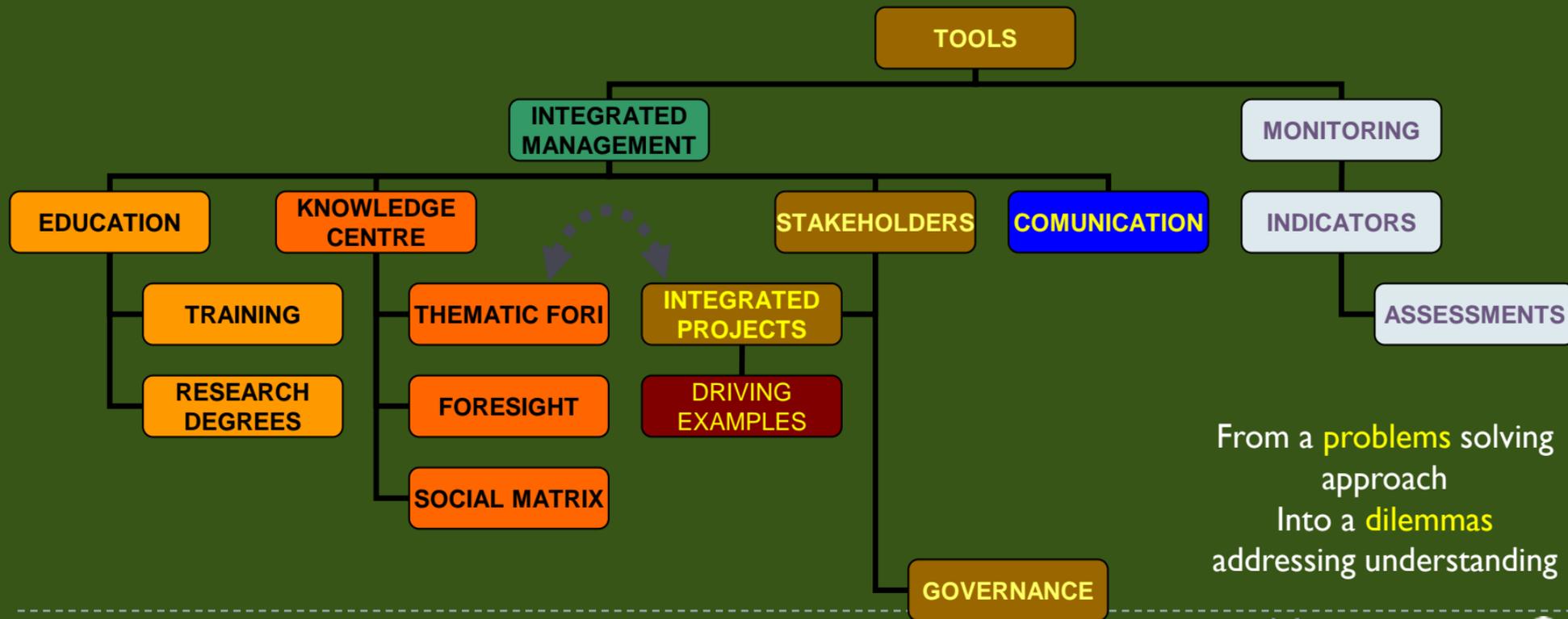
We recognize that people are at the center of sustainable development

# Overcoming sustainable development

- ▶ Eco 92 positive, institutional advances: ministries of the environment, education, Agenda 21
- ▶ Eco 92 set-backs: economic crisis, environmental degradation, social divides, cultural disruptions
- ▶ *Sustainable Development* is the last frontier of the unique thinking
- ▶ A NEW PARADIGM: moving from GOALS into PROCESSES



# Operational framework



From a **problems** solving approach  
Into a **dilemmas**  
addressing understanding



# Where?



- ▶ Portugal
- ▶ Spain
- ▶ Greece
- ▶ Cap-Vert
- ▶ Angola
- ▶ Namibia
- ▶ Tanzania
- ▶ Brazil
- ▶ Phillipines
- ▶ + APHELEIA



## Core task: looking into our present from a long term perspective

*There be three times; a present of things past, a present of things present,  
and a present of things future*

*present of things past, memory;  
present of things present, sight;  
present of things future, expectation...*



Saint Augustine



CIPSH  
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Associação de Defesa do Município de Mação



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de Tese



Have fun (and work)!

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