

The 7th Circumpolar Agricultural Conference, September 6-8, 2010 in Alta, Norway

Tourism and Environment

Climate Change, Sustainability and Transmodernity – what does it mean for Northern Tourism

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Topics

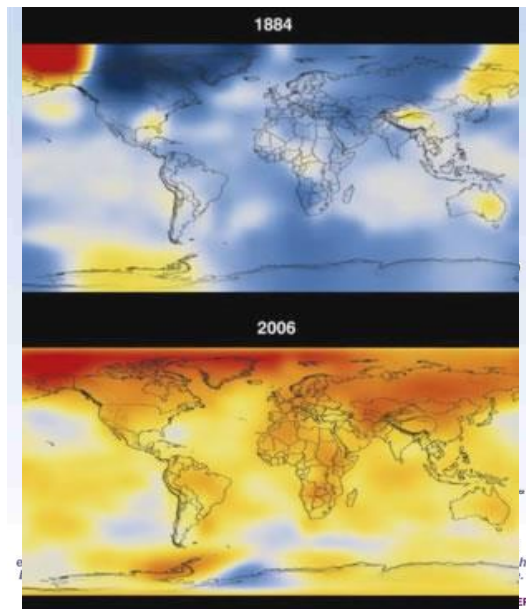
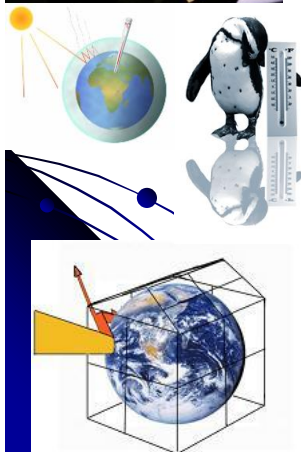
1. Climate change – what is going on?
2. What is sustainability?
3. Transmodernity?
4. Implications!

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Topics

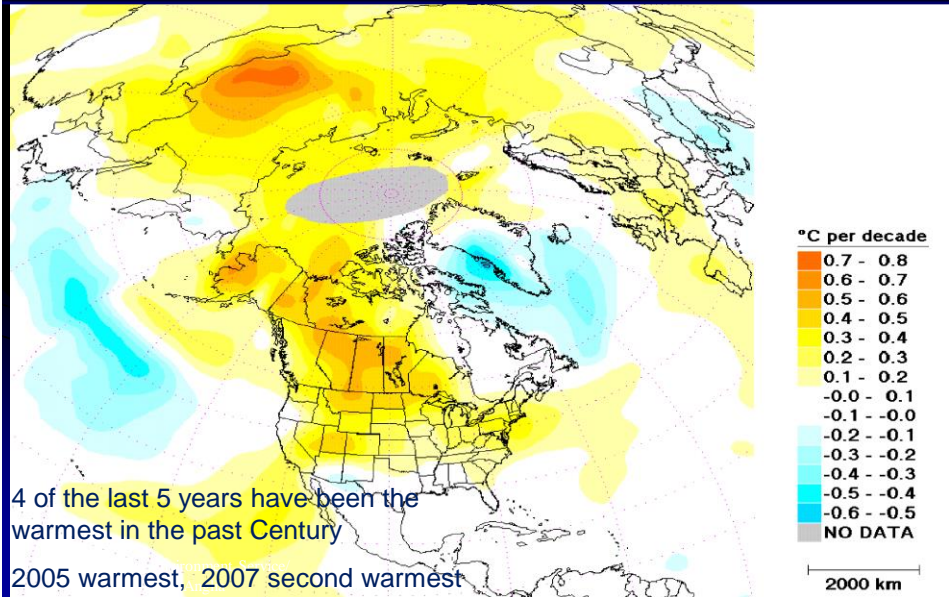
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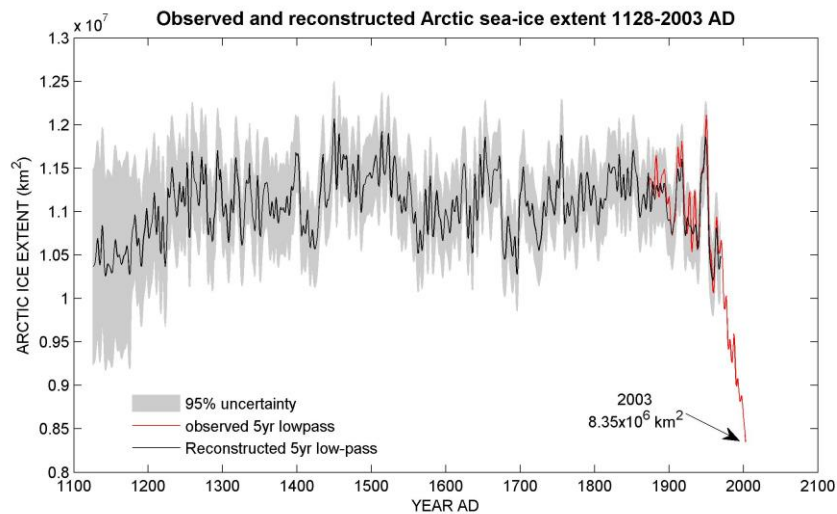
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Annual Surface Air Temperature Trends 1961-1990 show that the changes are uneven



5

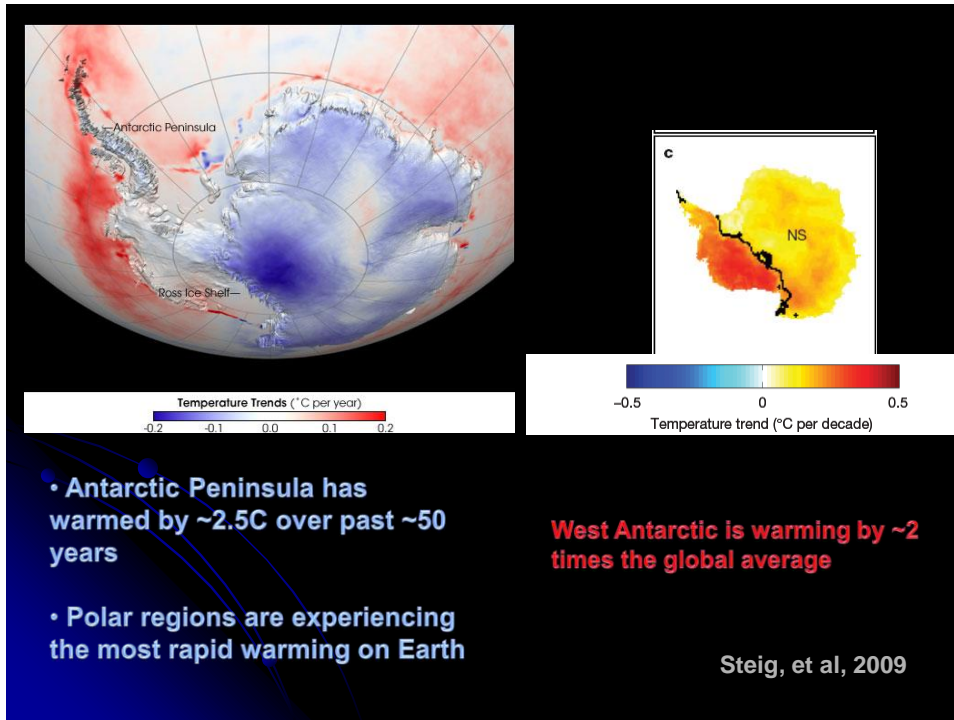
What we see today:



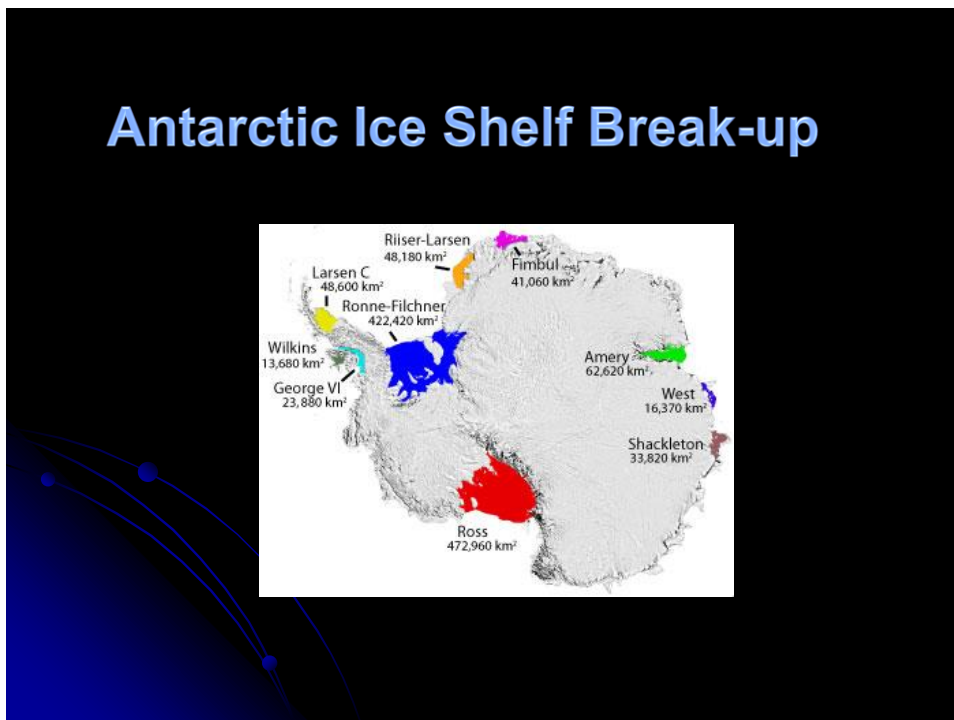
Observed and Reconstructed Arctic Sea-Ice Extent (1128 – 2003 AD)

Christophe Kinnard, University of Ottawa

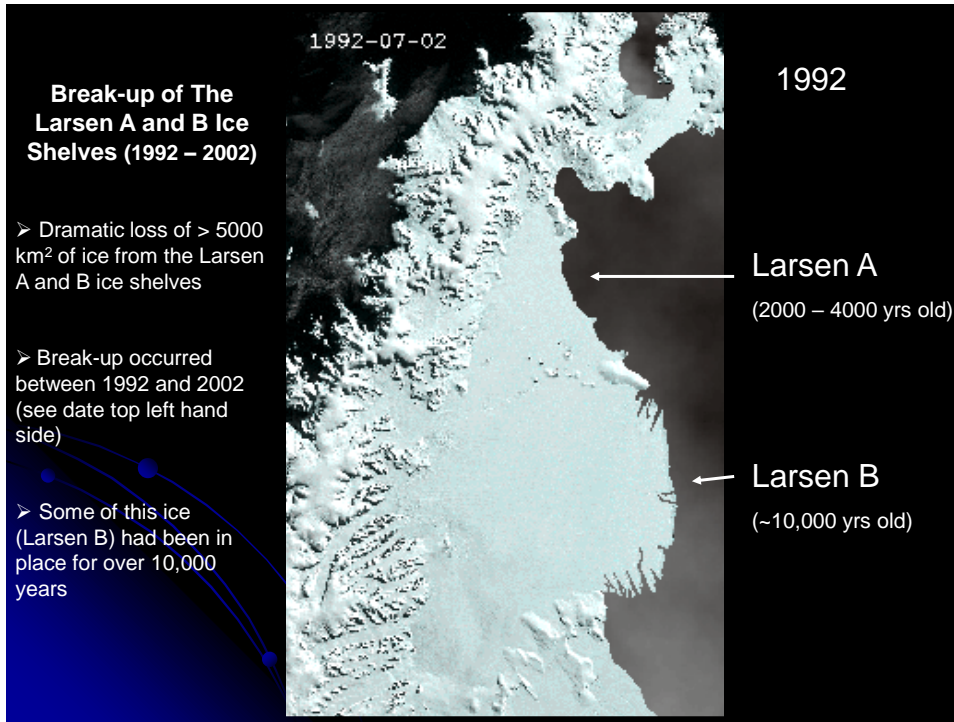
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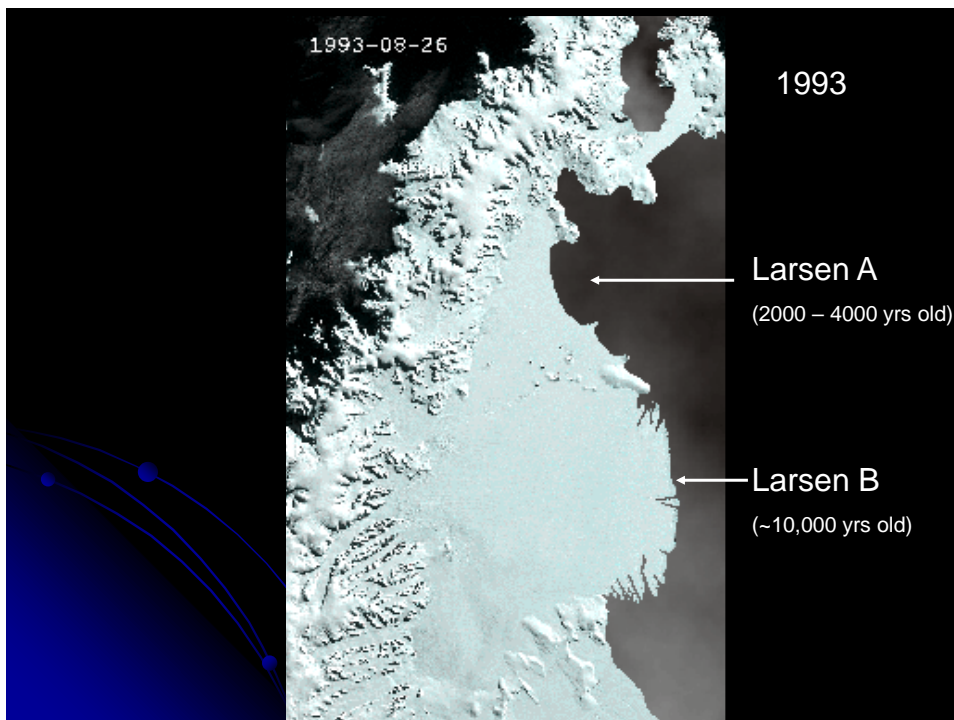
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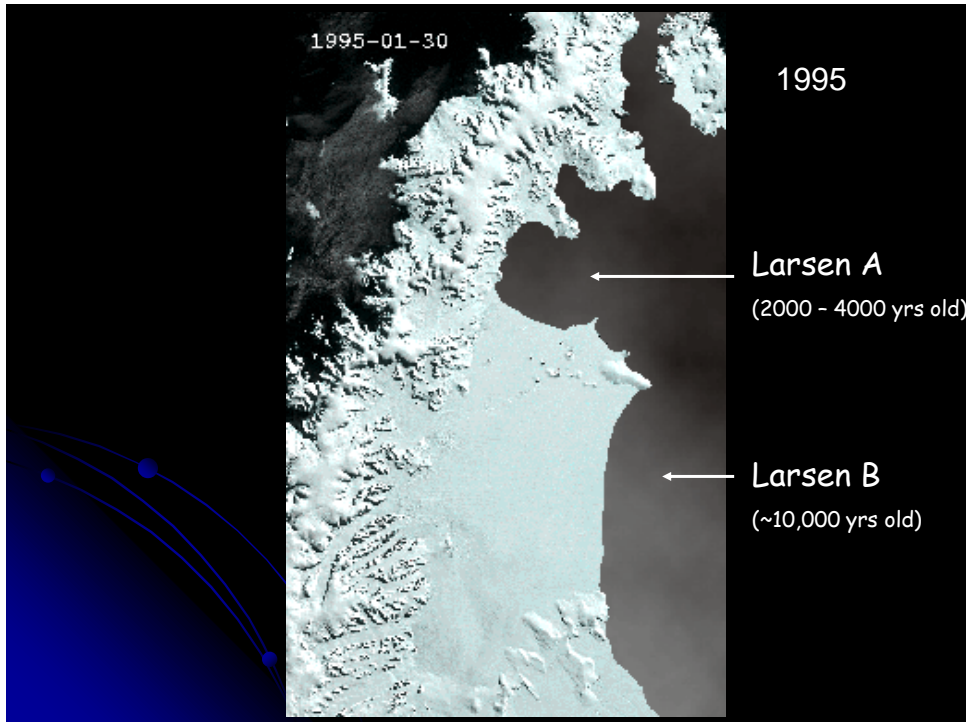
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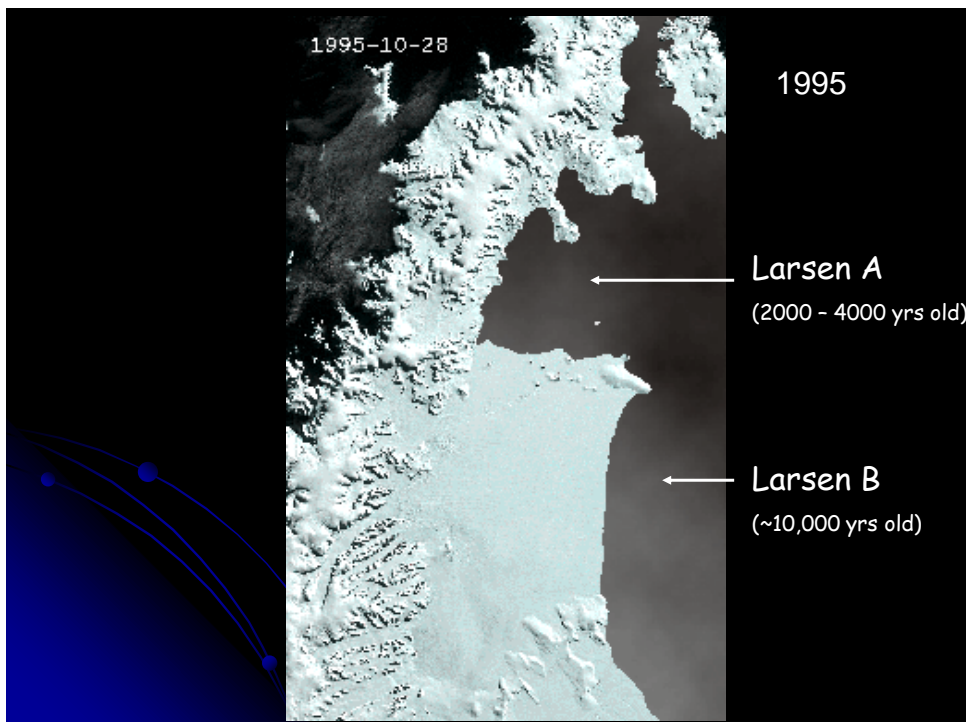
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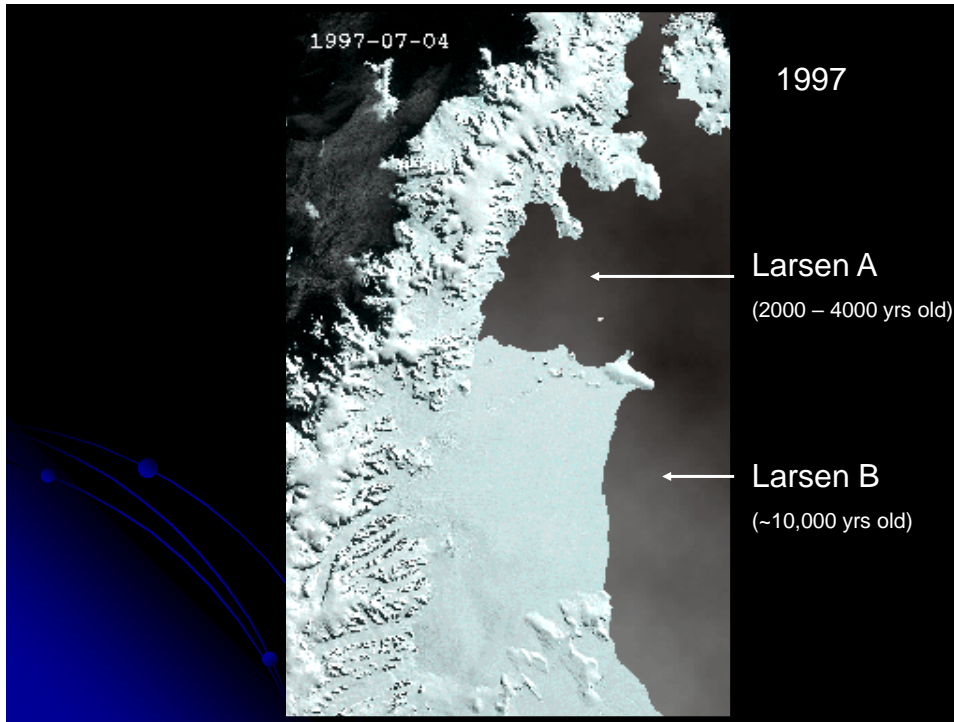
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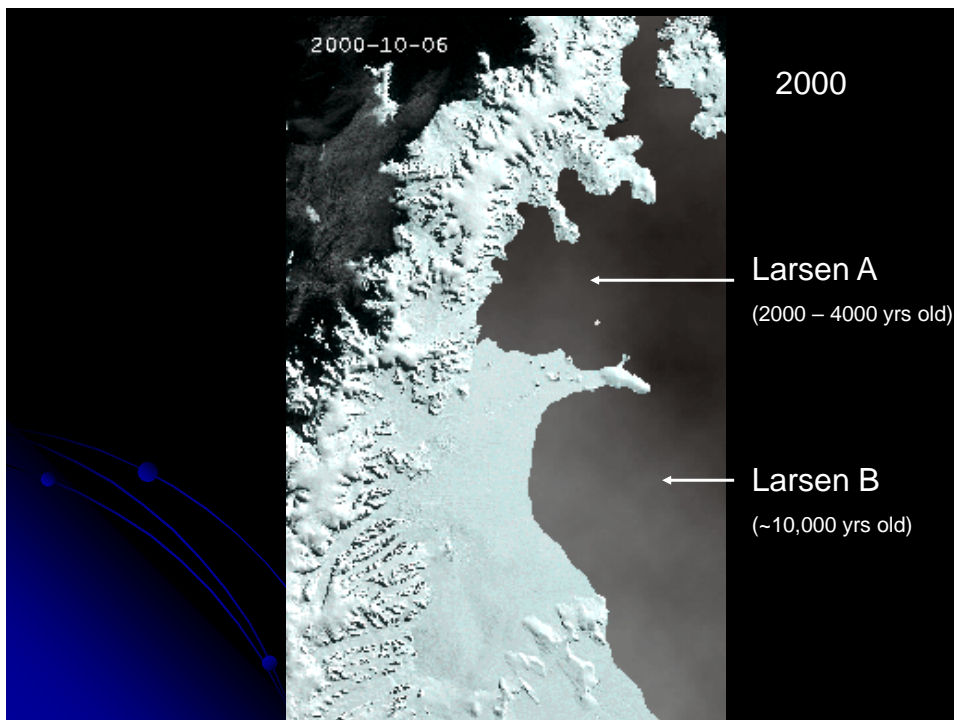
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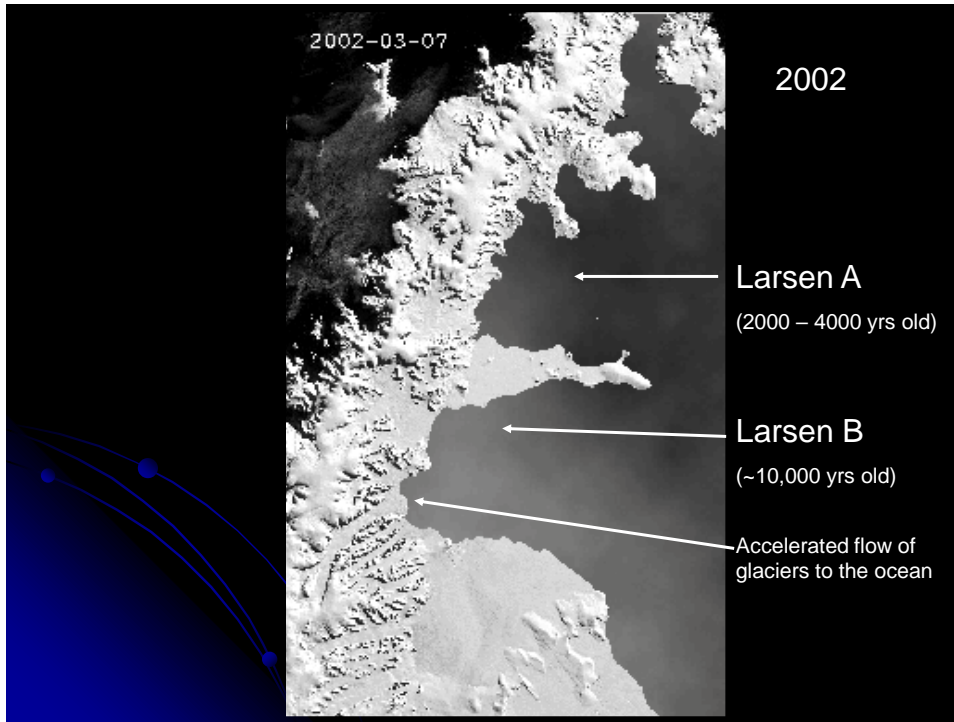
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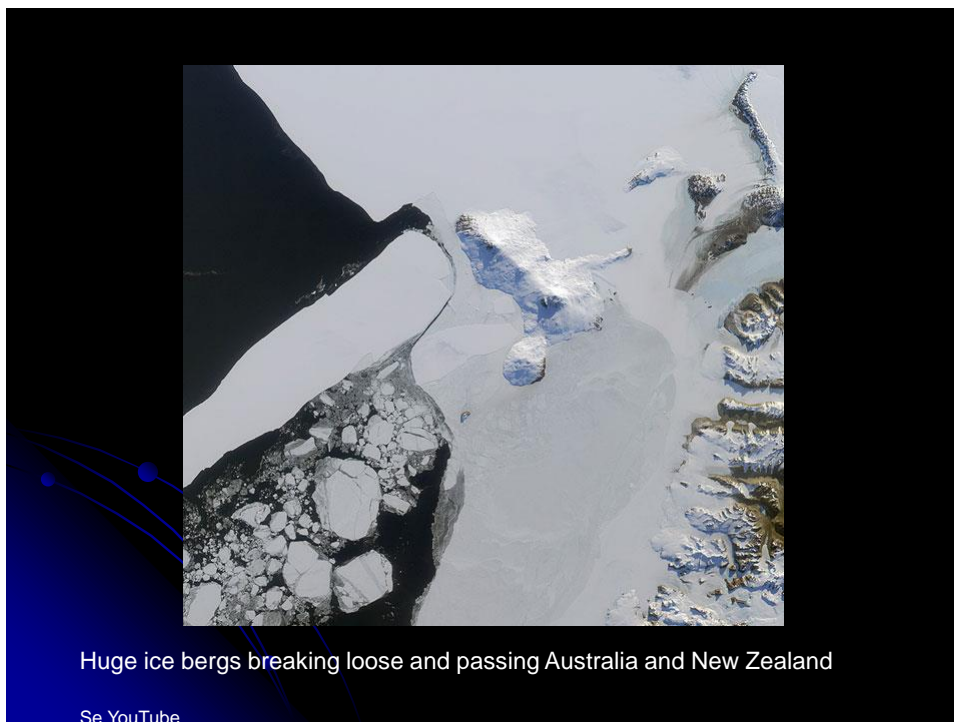
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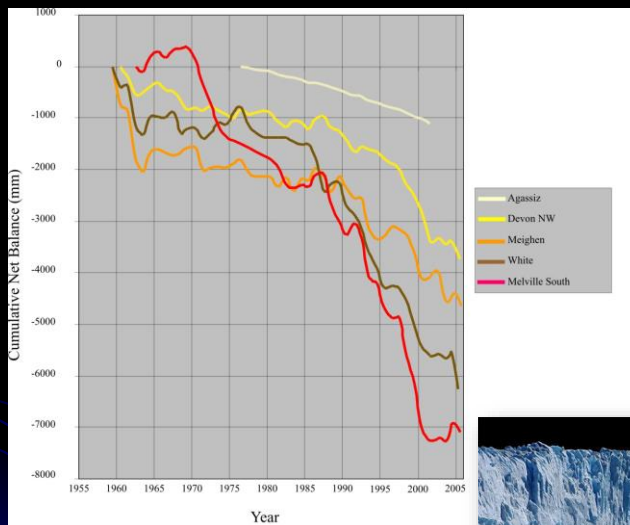
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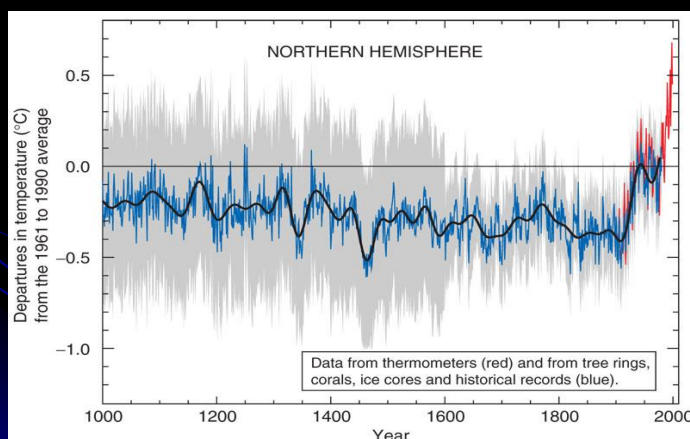


Cumulative net mass balance for 5 ice caps/glaciers in the Canadian high Arctic.

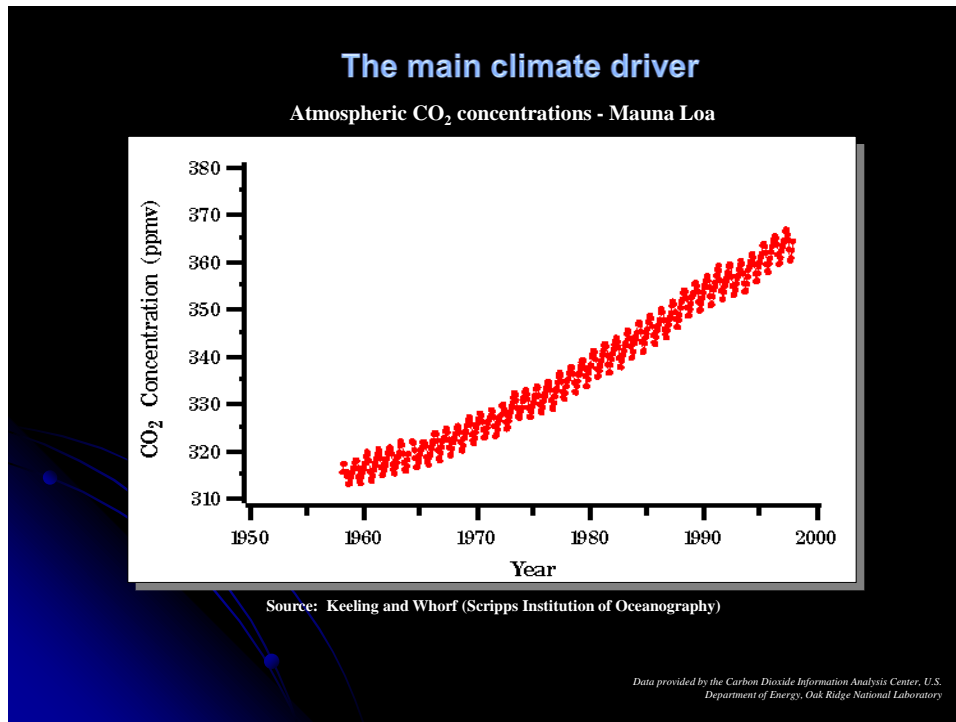
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When combining different records such as ice cores, lake sediments and tree rings and combined as in the profile below from the Northern Hemisphere, they show the well known “hockey stick” profile with climate cooling till < 150 years ago and warming rapidly since.

Average global temperature in last years was higher then it has been for 1000 years.



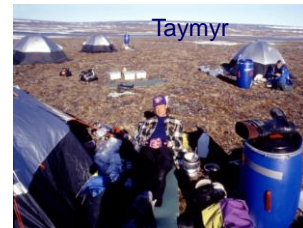
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Swedish-Russian Tundra Ecology Expedition 1994

North East passage in the steps of Nordenskiöld

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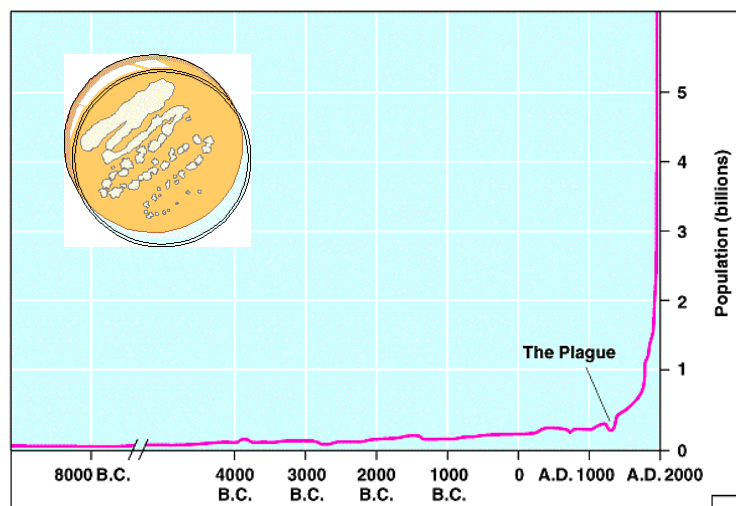
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Sustainability?

Figure 47.20 Human population growth

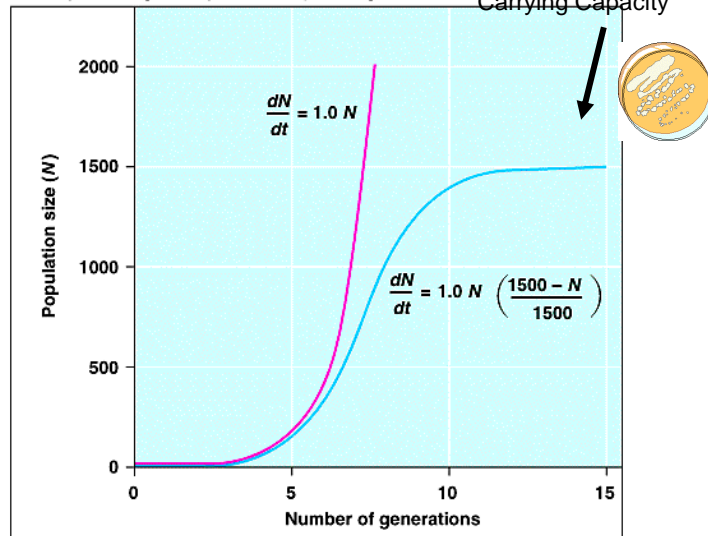


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Biology 101

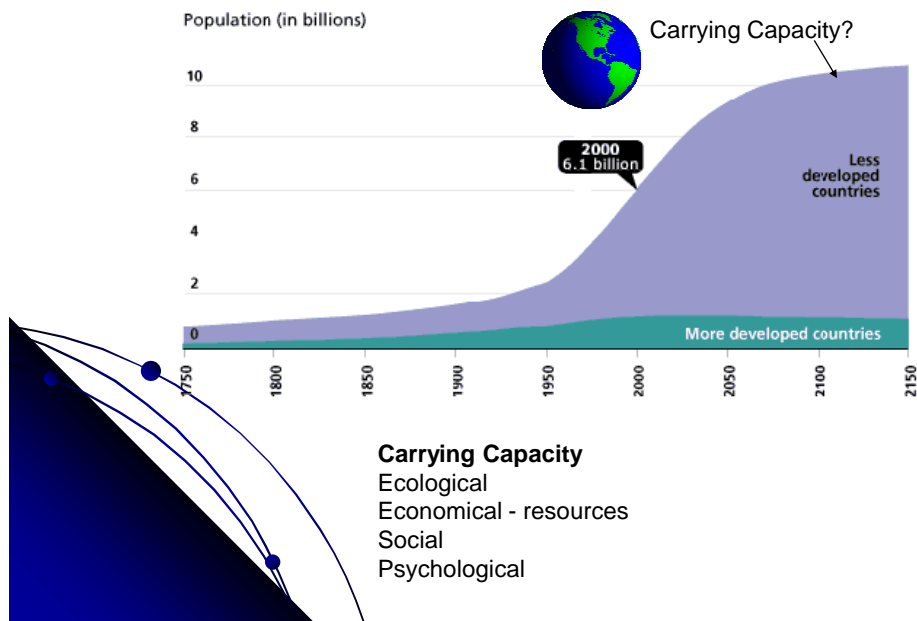
Figure 47.14 Population growth predicted by the logistic model



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Sustainability = Sustainable growth? How Many people?



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Ecological Footprint

7,2 ha

1 ha

Ecological footprint

Svenska Naturskyddsförningen

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Klimatsmartkalkylatorn



Din totala förbrukning:

Kategori	Procent
MAT	23%
RESOR	27%
HEIM	24%
PRYLAR	27%

Ditt planetmål:
2,3 planeter



Det motsvarar ett ekologiskt fotavtryck på **4,22 hektar**

Koldioxidutsläpp:
9,89 ton / år

Nu kan du göra skillnad

Vill du veta hur du förbättrar ditt testresultat?
Bli medlem i Klimatsmart och se hur..

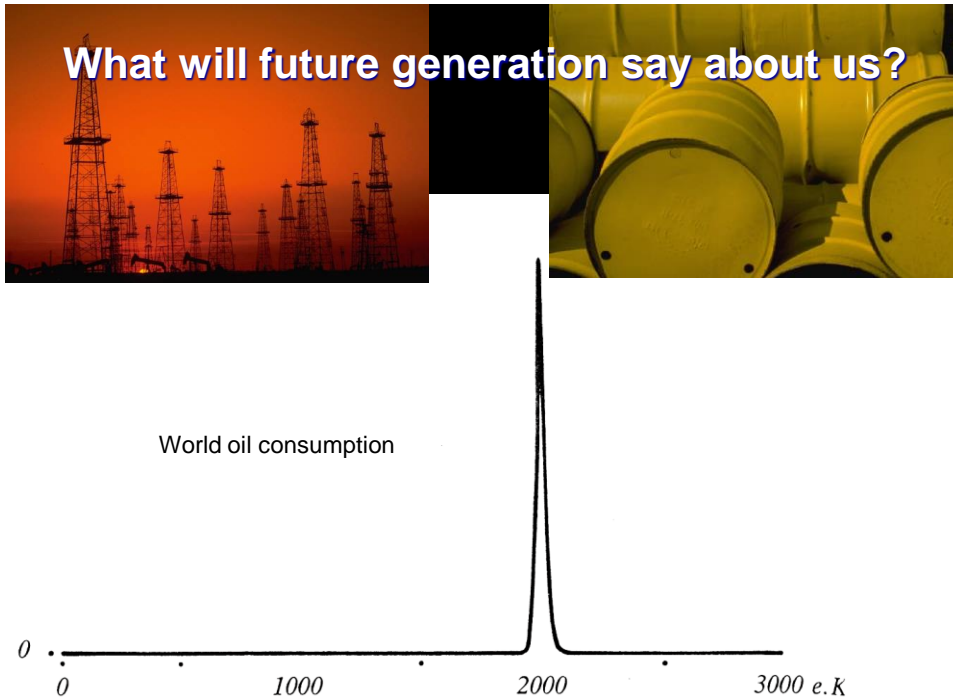
Bli medlem

Om du redan är medlem men inte är inloggad kan du göra det i högra kolumnen för att spara ditt resultat.

Gör om testet

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What will future generation say about us?



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Crisis Reports

- 1972 1:a Globala Environmental Conference Stockholm
- 1980 Brandt commission "Common Crisis"
- 1982 Palme commission "Common Security"
- 1987 Brutland commission "Our Common Future", "Sustainable Development"
- 1992 FN Environmental commission Rio de Janeiro "Agenda 21"
- 2002 FN's Environmental commission Johannesburg
- 2007 FN Climate Panel
- 2009 Copenhagen

Agenda 21:

To secure future generations possibility for a
Tolerable life on earth.

To secure the continued existence of life and
civilisation on earth.



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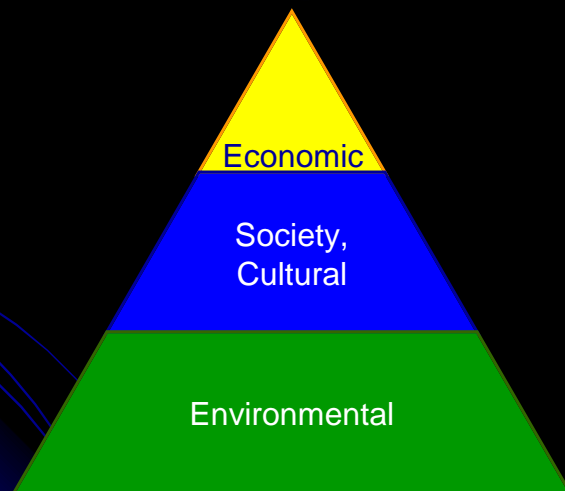
Philosophical, Political and Survival Question:

What is Sustainable Development?

- Increased materialistic living standards?
- Increased consumption?
- Increased health & wellness?
- Increased quality of life experience?

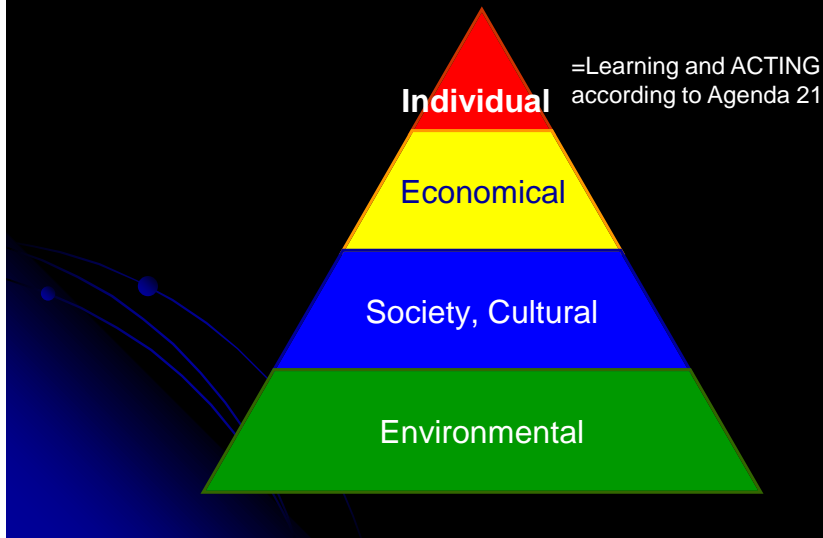
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Traditional model for Sustainable development



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New (mine) Definition of Sustainability

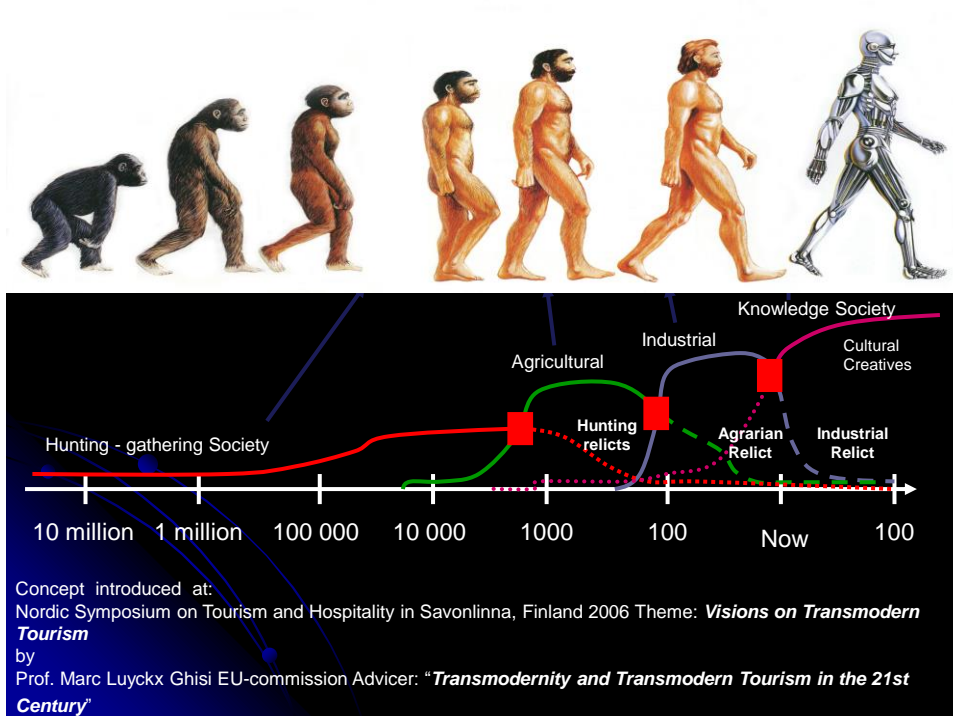


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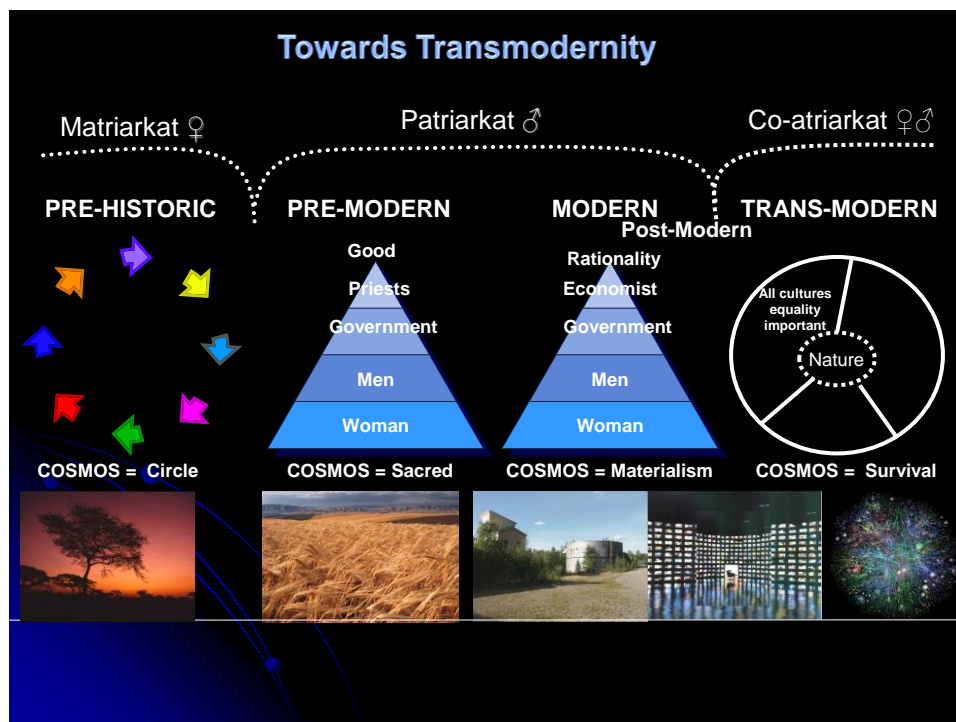
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What then is Transmodernity?

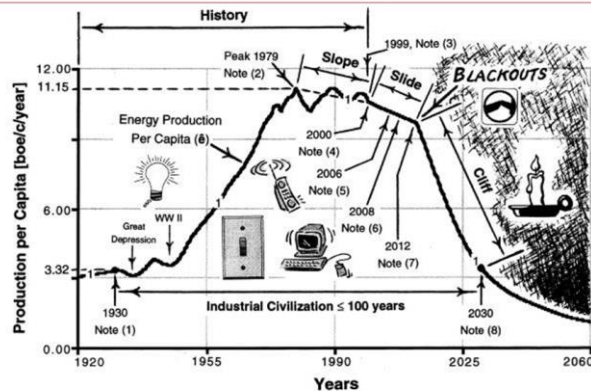
- Introduced by Rodriguez Magda (1989) (Latin America) and Luyckx Ghisi (1999) (Europe)
- A **Synthesis** of modernity (thesis) and pre-modernity (anti-thesis)
- Philosophy originating from the crisis of the dominating Western Modernity (Dominance & Imperialism from West, Materialism & Consumtionalism, Cultural imperialism)
- **Basic Values:**
 - Equality of the sexes (Coatriarcate ♀♂)
 - Glocal Cultural & Ethnic equality
 - Sustainability and survival of humankind
 - Individuality & Globalism, interconnectedness

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Generation G

Generation Green, Global, Generous, Gentle, etc.,

The Olduvai Theory: 1930-2030



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IMPLICATIONS:

**Turism - problematic from an Environmental
& Sustainable perspective:**



CO2 Emissions!!

New York – Stockholm	6287 km	440 kg CO ₂
Hongkong – Stockholm	8200 km	573 kg CO ₂

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What to do?



Ignore the problems?

**Compensate Tourism
Environmental impact
by transformational
experiences for
sustainable lifestyle!**

Green pedagogic



Show our wonderful world

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Green Pedagogic



Showing our wonderful world
– addressing the heart

Black Pedagogic



Discussing our environmental
problems – addressing the head

Want **ACTION** for a
better world

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= Transmodern Tourism!

No concepts or theories developed yet!

Deductive answer:

Tourism with the goal (*telos*) of sustainability and survival of humanity.

Tourism that implement Agenda21

Implication 1: Normative tourism (*how to do*)

Implication 2: Transformative tourism (*change to*)

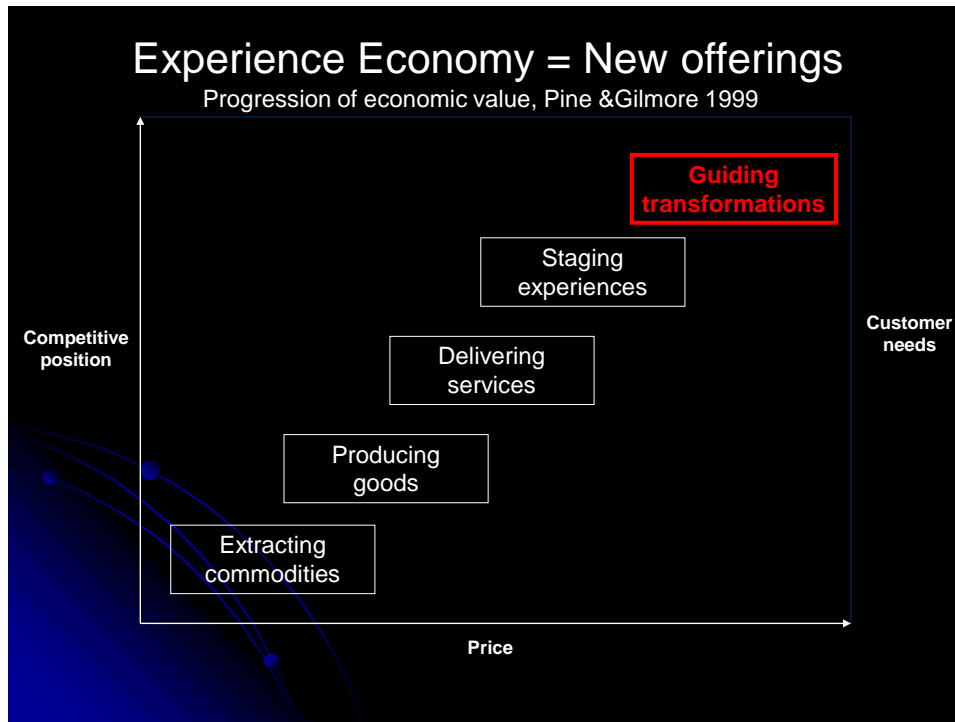
Implication 3: Tourism with clear learning goals (*i.e. sustainability*)

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Tourism Model



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		Tourism	Nature Tourism	Ecotourism	Transformation Tourism
Economic Sustainability	1. Business Management and Operational Planning	✓	✓	✓	✓
	2. Business Ethics	✓	✓	✓	✓
	3. Responsible Marketing	✓	✓	✓	✓
	4. Customer Satisfaction	✓	✓	✓	✓
Environmental Sustainability	5. Natural Area Focus		✓	✓	✓
	6. Environmental Sustainability		✓	✓	✓
	7. Interpretation and Education		✓	✓	✓
	8. Contribution to Conservation		✓	✓	✓
Social Sustainability	9. Working with Local Communities			✓	✓
	10. Cultural Respect and Sensitivity			✓	✓
Personal Sustainability	11. Value and attitude transformation				✓
	12. Behavioral transformation				✓
	13. Lifestyle transformation				✓

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Transformational Learning of Agenda 21

- Learning “about” nature



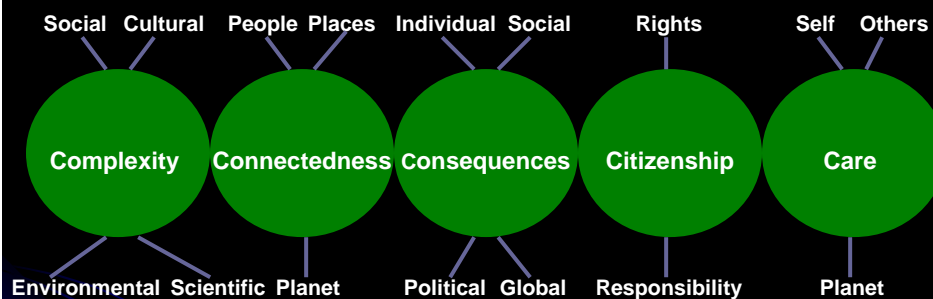
- Learning “in” nature
- Learning “with” nature
- Learning “from” nature
- Learning “through” nature
- Learning “for” nature

= Transformational Learning in tourism

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Green pedagogic?



(5 x C) of Agenda 21

After Peter Higgins

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1) Global trends: **CONCLUSIONS**

- Sustainability
- Transmodernity
- Experience Economy & Experience Production
- Transformation Economy

2) Tourism Consequences:

- Sustainable tourism
- Nature as a resource for transformational experiences
- Transformations for Agenda 21 & Wellness of Individuals, Society & Earth



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