## INSTITUTIONS AND INSTITUTIONAL DESIGN

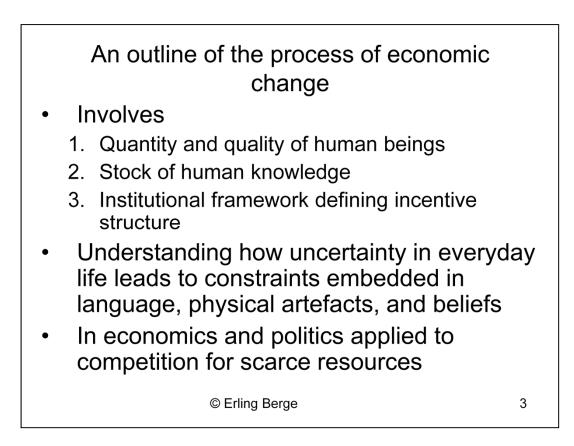
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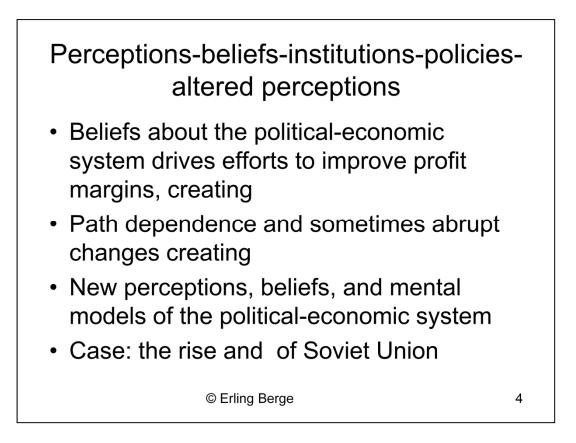
## Lecture notes on North (2005) Understanding the process of economic change

## Literature

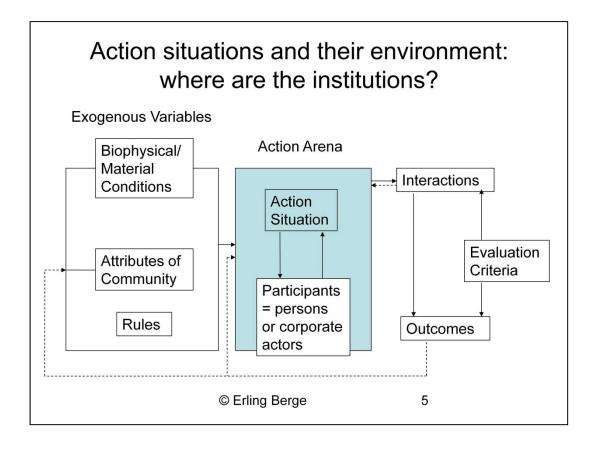
- North, Douglass C 2005 "Understanding the process of Economic change", Princeton, Princeton University Press,
  - Ch 1 An outline of the process of economic change
  - Ch 2 Uncertainty in a non-ergodic world
  - Ch 3 Belief systems, culture, and cognitive science
  - Ch 4 Consciousness and human intentionality
  - Ch 5 The scaffolds humans erect
  - Ch 6 Taking stock
  - Ch 7 The Evolving Human Environment
  - Ch 8 The Sources of Order and Disorder
  - Ch 9 Getting it Right and Getting it Wrong
  - Ch 10 The Rise of the Western World
  - Ch 11 The Rise and of the Soviet Union
  - Ch 12 Improving Economic Performance
  - Ch 13 Where are we going?

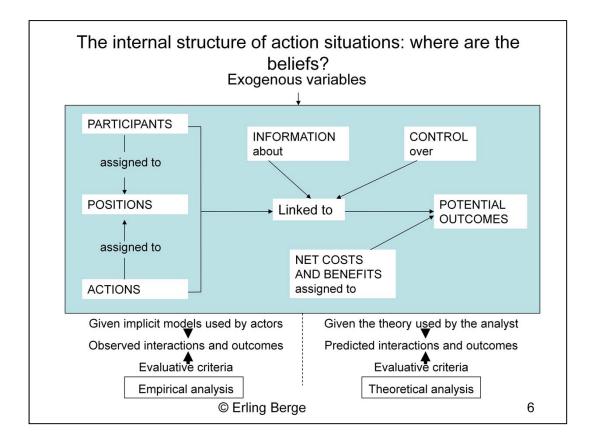
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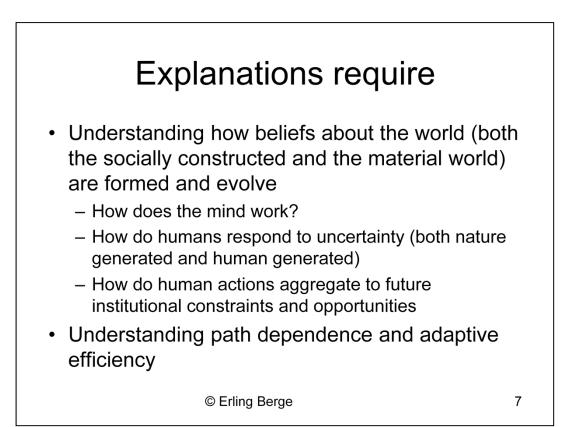


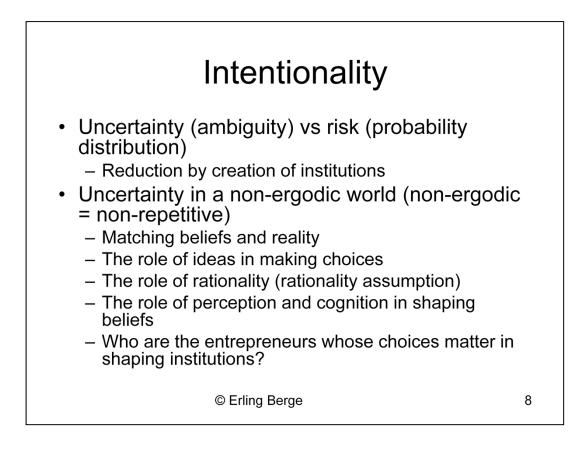


(see p 3) Marx&Engels provides beliefs about the world. Russia 1917 provides an opportunity. Retreat in 1921-28. Re-establishes belief driven policies in 1928. Beliefs evolved with developments 30-80 including WWII. Success in heavy industry and science. Problems in agriculture. Gorbachev reforms ended in collapse of the Soviet Union in 1991.



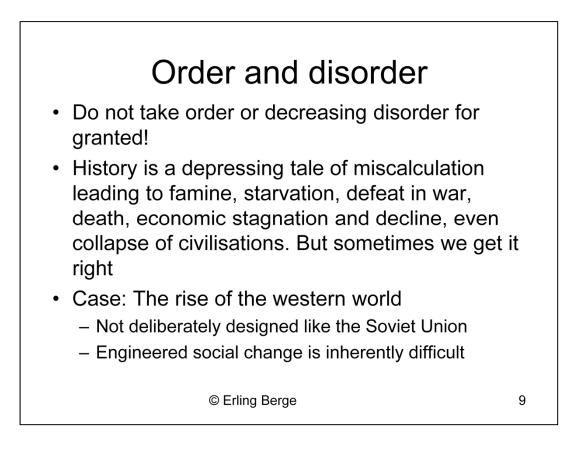


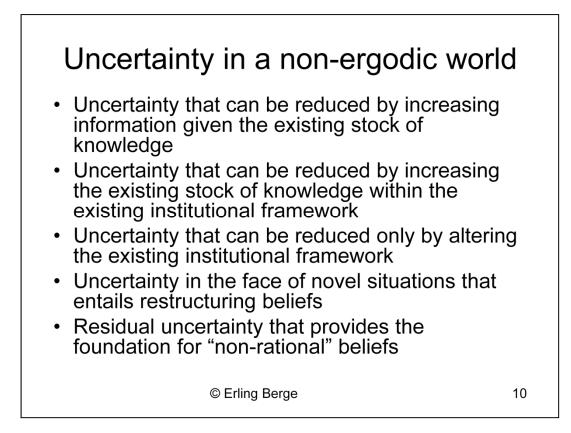




Uncertainty reduction:

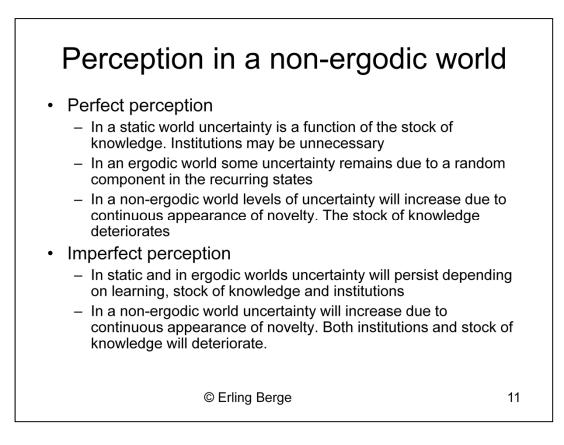
- 1. Increasing information (case: developing marine insurance)
- 2. Increasing the stock of knowledge (of for example how to produce food)
- 3. Altering the institutions (improving contract enforcement, lowering transaction costs)
- 4. Altering the beliefs about the world (e.g. whom to trust or not)
- 5. Altering the basis for "non-rational" beliefs about the world (roles of religions)

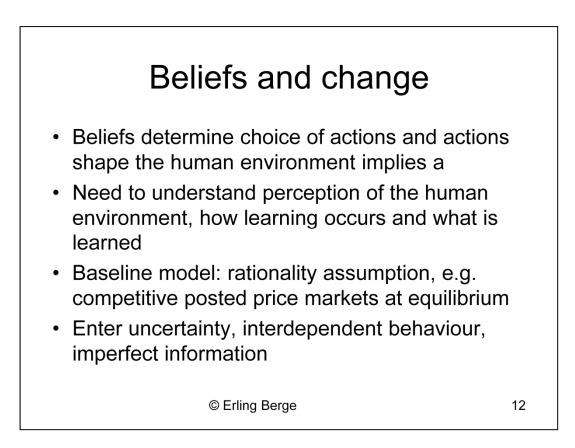


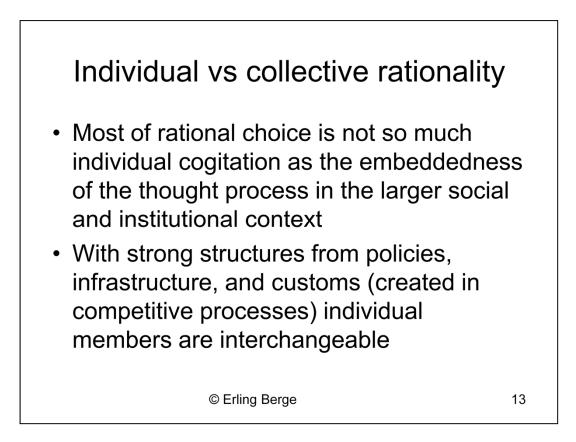


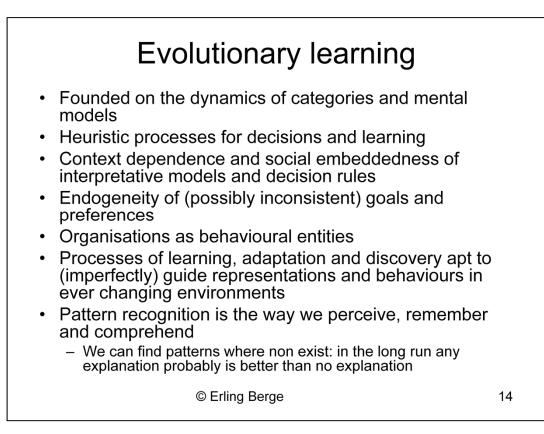
Uncertainty reduction:

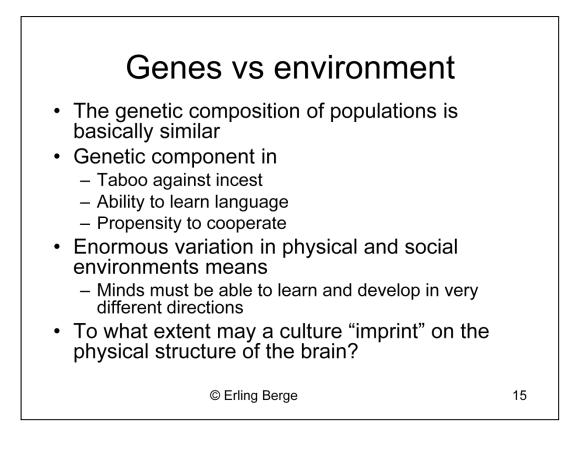
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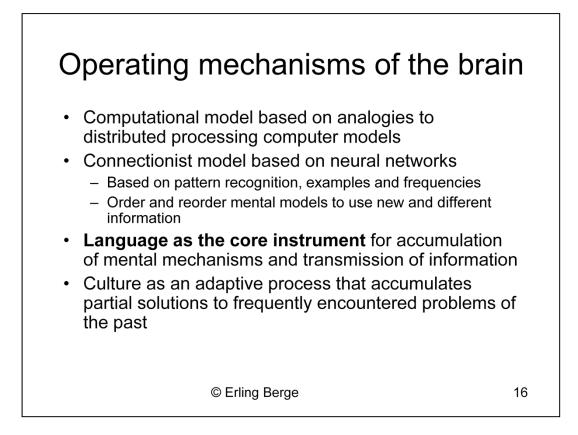






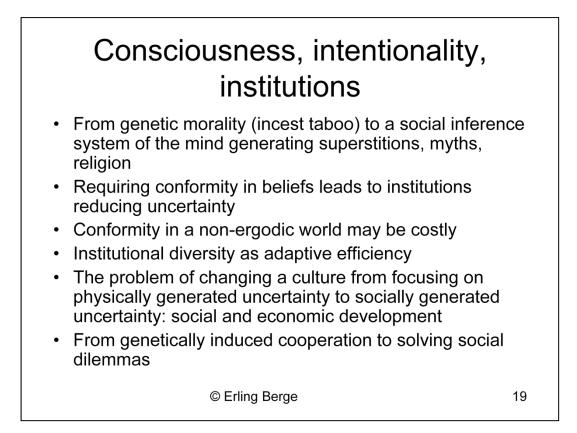








### Consciousness From core consciousness to extended Theory of consciousness assumptions 1. Physical: The laws of physics are not violated 2. Evolutionary: Consciousness arose as a phenotypic property 3. Qualia: the collection of personal or subjective experiences, feelings, and sensations that accompany awareness are unique to each individual **Extended** implies Imaginative explanations for the world out of sight (superstitions, myths, dogmas, religions) Development of institutions and artefacts revealing the intentionality of consciousness © Erling Berge 18

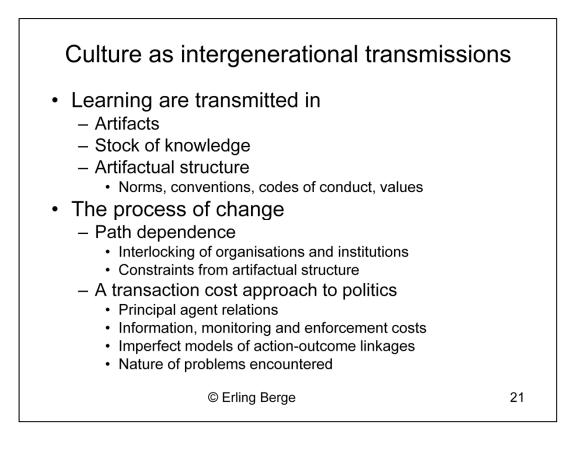


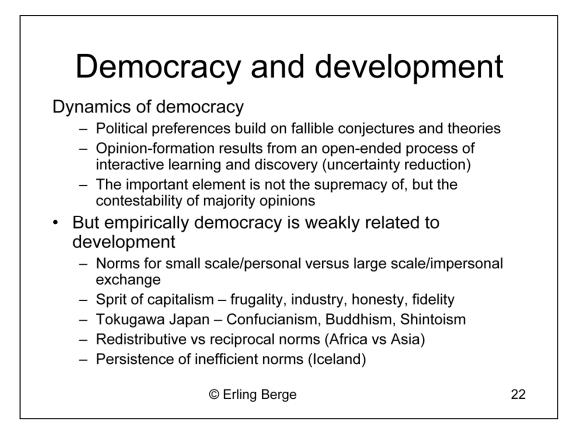
# Social structure (the scaffolds)

Physical and human capital

- Institutional framework
  - Political system to develop and decide on policy
  - Property rights to define economic incentives
  - Social incentives norms, conventions, codes of conduct
- Beliefs are internal (or informal) and institutions external (or formal) representations
  - Beliefs among those who make rules
  - Beliefs are not easily changed, and evolve in ways not completely understood

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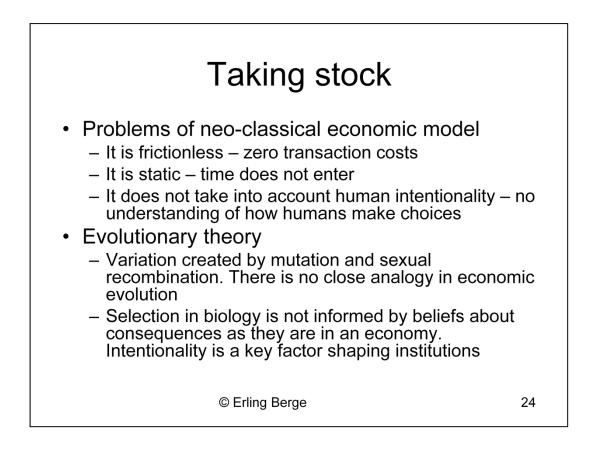


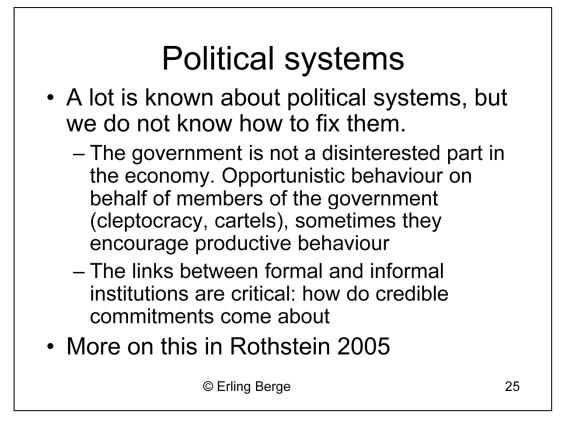


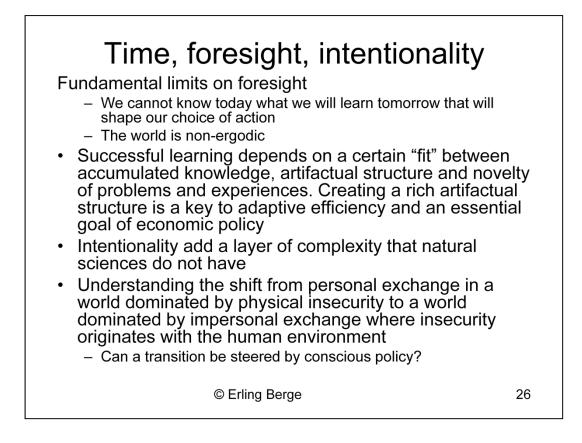
## Institutional change

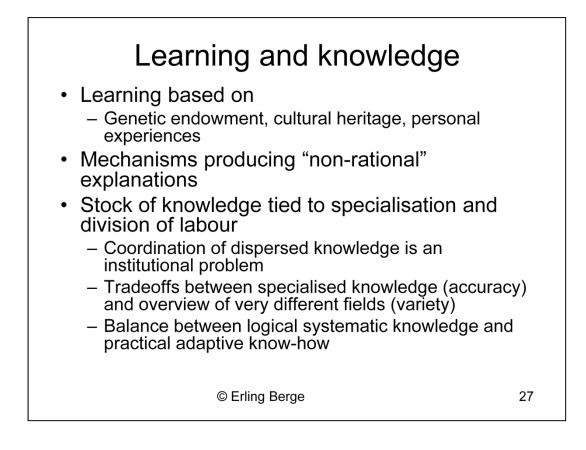
- 1. The continuous interaction between institutions and organisations in the economic setting of scarcity and hence competition is the key to institutional change.
- 2. Competition forces organisations to continually invest in skills and knowledge to survive. The kinds of skills and knowledge individuals and organisations acquire will shape evolving perceptions about opportunities and hence choices that will incrementally alter institutions.
- 3. The institutional framework provides the incentives that dictate the kinds of skills and knowledge perceived to have the maximum pay-off.
- 4. Perceptions are derived from the mental constructs of the players.
- 5. The economies of scope, complementarities, and network externalities of an institutional matrix make institutional change overwhelmingly incremental and path dependent. (North 2005:59)

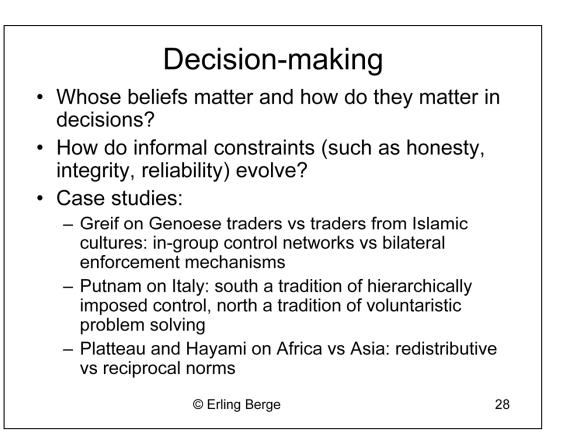
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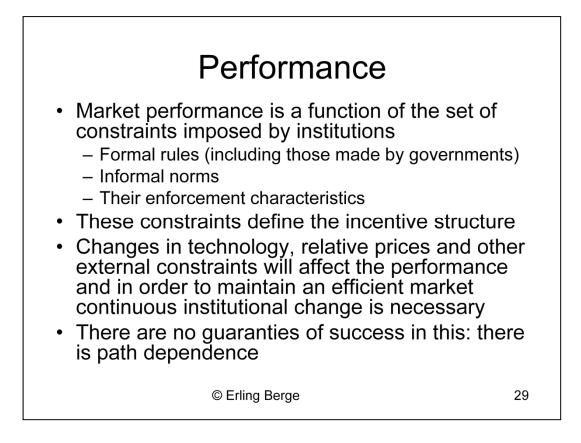


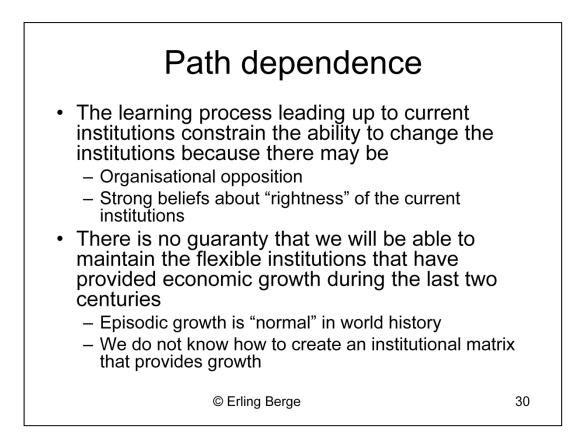




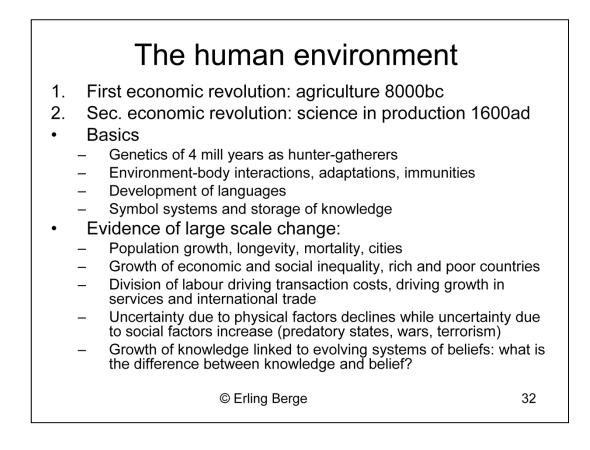




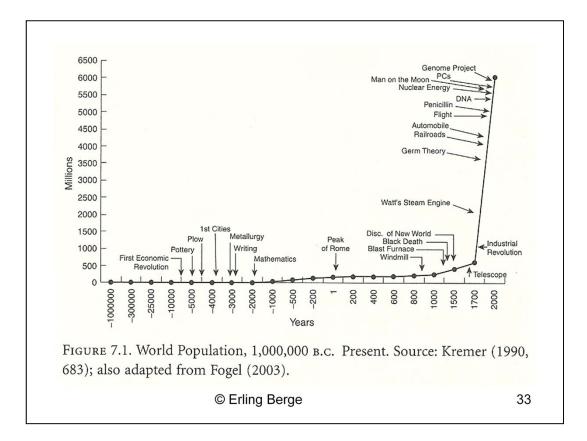








The argument about the importance of Uncertainty due to physical factors declines while uncertainty due to social factors increase (predatory states, wars, terrorism) is suspect. Is it shift in relative importance? Or is it knowledge based? Institutions are not quite s good at disguising themselves as nature? And a shift in scale of solidarity?



#### HISTORY'S HAVES AND HAVE-NOTS • 99

Source: Diamond, Jared. 1997. *Guns, Germs and Steel: A short History of Everybody for the Last 13 000 Years.* London: Vintage.

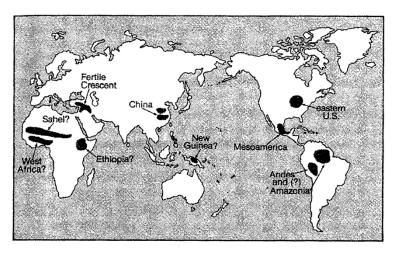
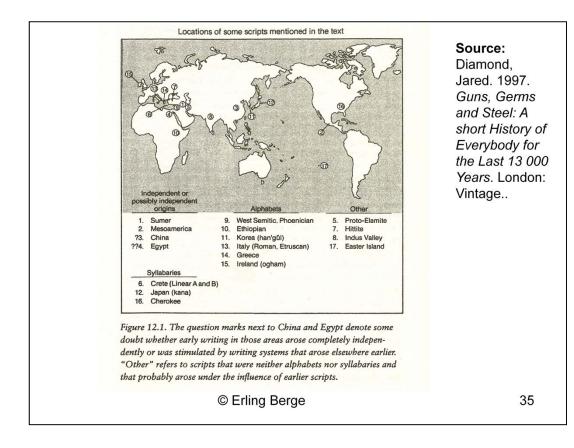
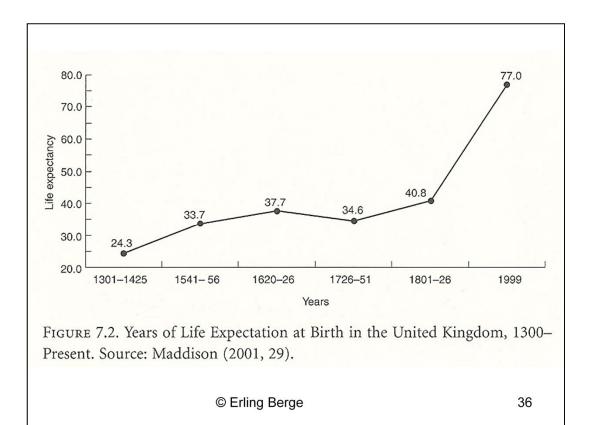
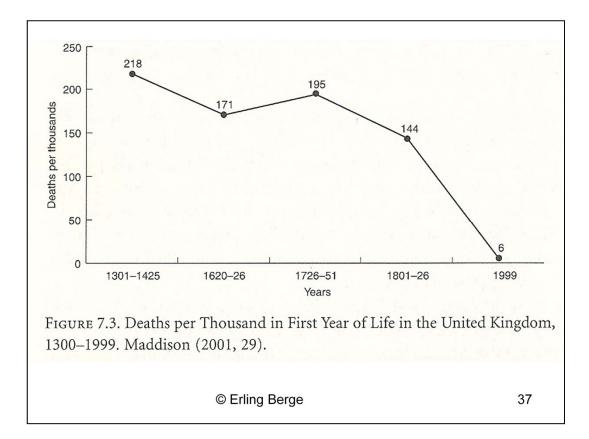


Figure 5.1. Centers of origin of food production. A question mark indicates some uncertainty whether the rise of food production at that center was really uninfluenced by the spread of food production from other centers, or (in the case of New Guinea) what the earliest crops were.

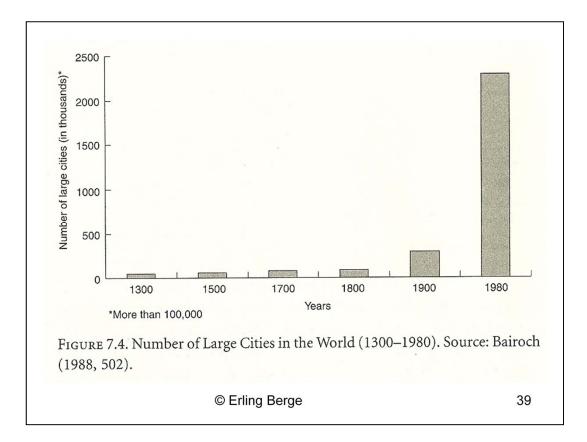
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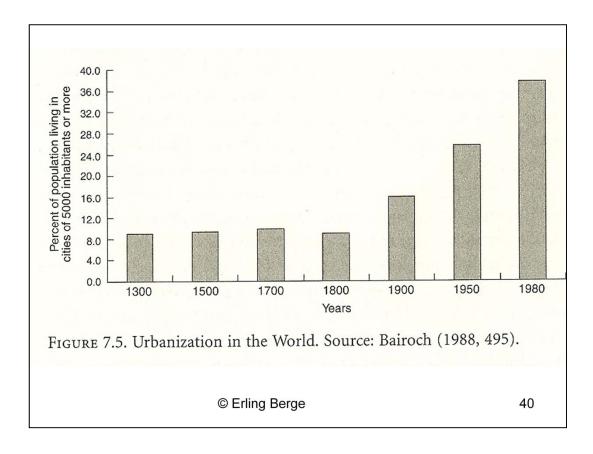


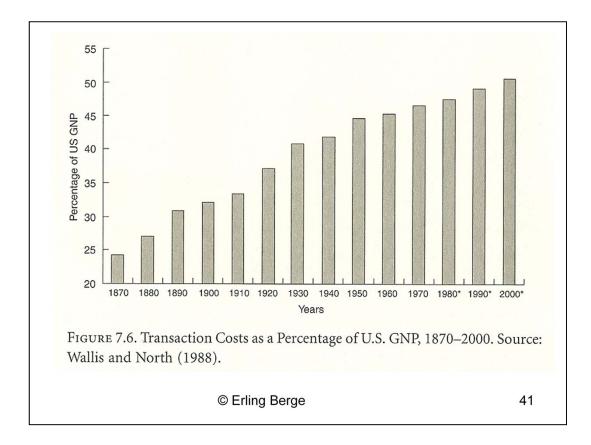


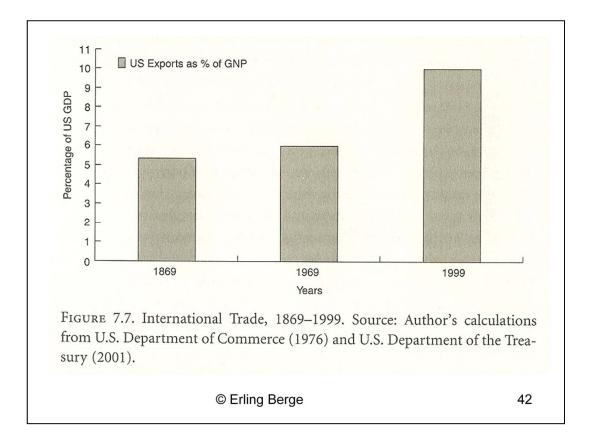


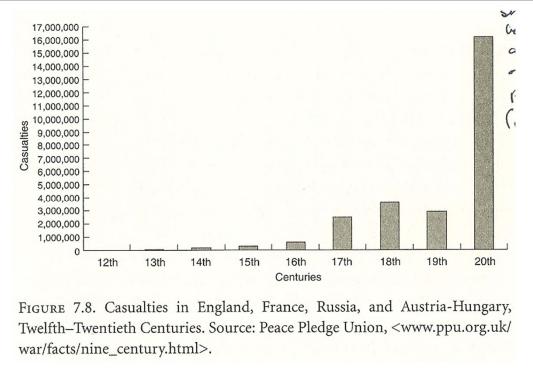
(1990 international dollars)							
		1000	1500	1600	1700	1820	1998
Average Developed		405	704	805	907	1,130	21,470
Average Undeveloped Ratio, Developed to		440	535	548	551	573	3,102
Undeveloped		0.92	1.32	1.47	1.65	1.97	6.92
Source: Maddison (200	1, 46).						



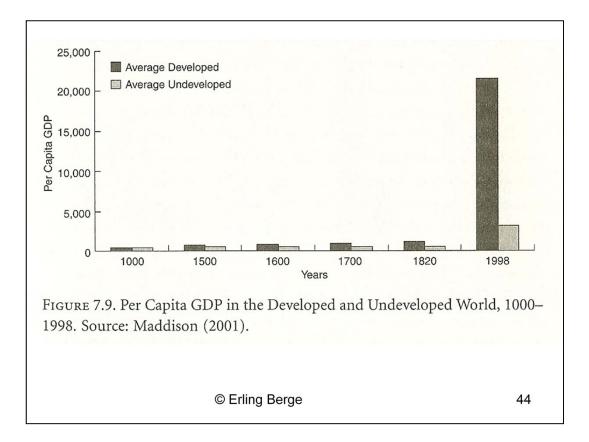


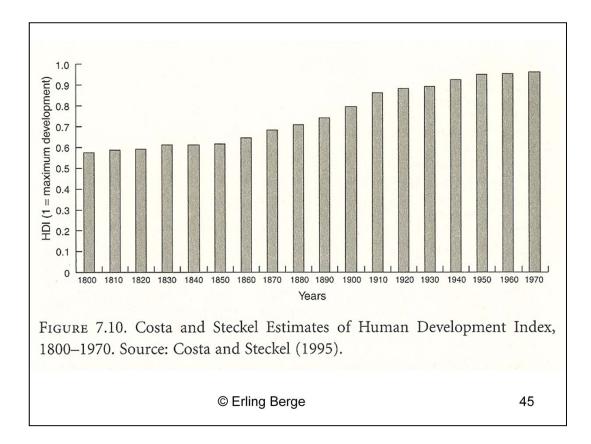


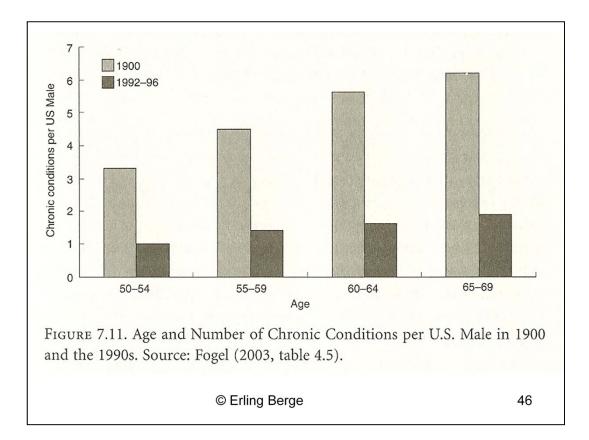


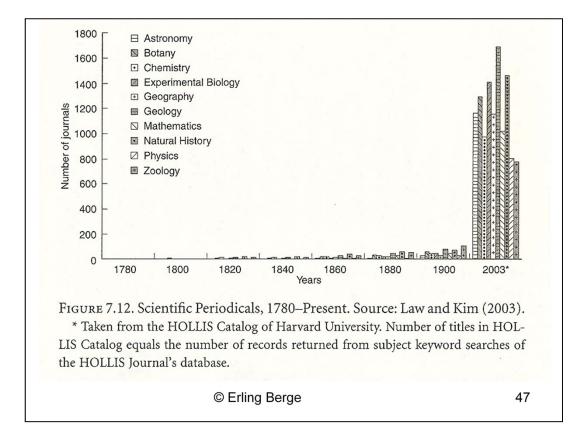


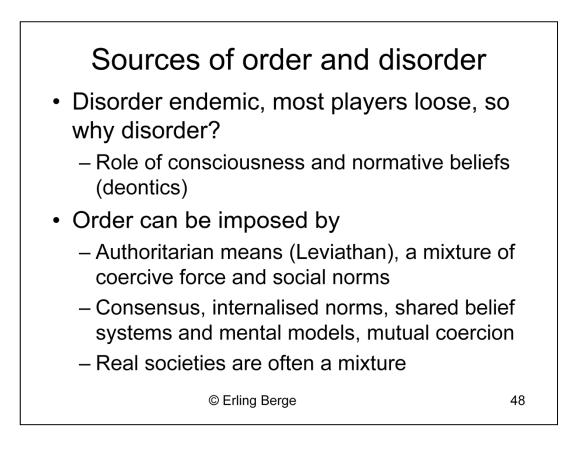
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## Problem of creating order

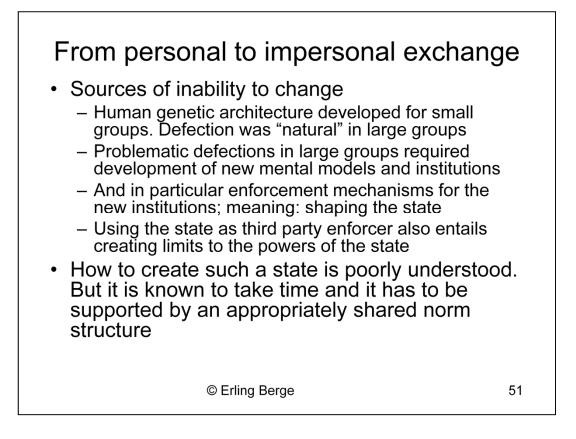
- Disorder from changing benefits, shifts in power, eroding beliefs about legitimacy
- Order from
  - Shared beliefs about the role of government and rights of citizens
  - Constitutions assigning rights to citizens also limits the role of the state
  - Property rights are well defined so that transgressions are easily detected
  - States provide credible commitment to citizen rights
  - Formal commitments backed by strong social norms
- Case study: USA from colonial era onwards
  Adaptively efficient institutions mostly inherited from Britain
- Case study: Latin America from colonial era
  - "Stop and go" growth based on institutions inherited from Spain

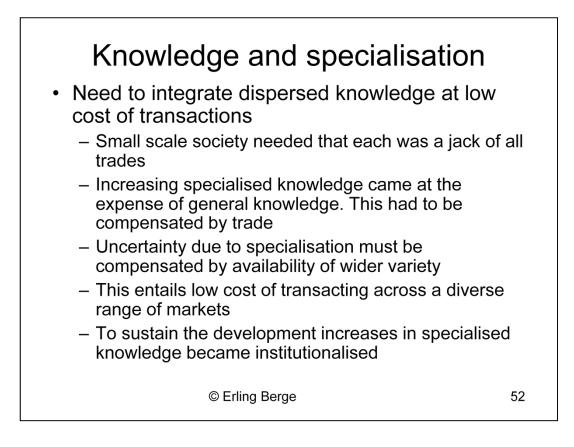
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### Fallible humans getting it right

- Problem: Reducing uncertainty and producing welfare
- · Get it right by trial, errors, and new trials
- · Needs to understand
  - Decision making under strong uncertainty
  - How humans learn
- · Get it wrong when
  - Mental models provide wrong interpretations
  - When conflicting beliefs allow those in power to avoid institutional change
    - Case: shift from personal exchange to impersonal in pre-modern Europe
      - Personal: reciprocity, repeated dealings, informal norms
        Impersonal: economic & political institutions must reward cooperation
    - The shift requires states that create and enforce rules that can sustain
      - contracts across distances both geographically and socially

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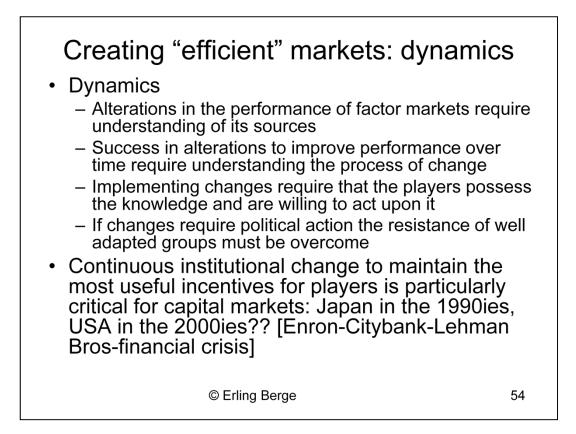


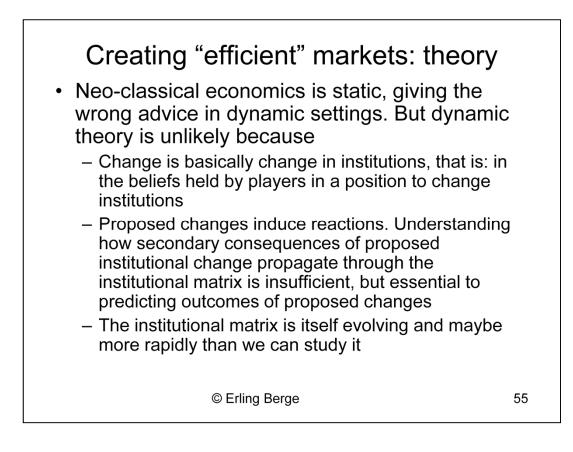
### Creating "efficient" markets: statics

#### Statics

- Assuming income and wealth maximising choices, what incentives will give correct behaviour in each factor market?
- Each market is a mixture of formal and informal constraints. These are reflected in the transaction costs
- Changes in constraints are created by a government with its own structure of interest
- It is not obvious that even a benevolent government knows enough to achieve its objectives
- Enforcement of institutions is made by agents with their own structure of interest

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### The rise of the western world (1)

- Start: 500 1500
  - Roman Empire, Church, Geography,
  - No large scale political units,
  - Military attacks by Vikings, Magyars and Muslims, military response by fortifications and cavalry
- Economy: Growth of <u>manor</u> and <u>town</u> economy
- Costs of warfare increased, giving advantage to larger political units
- Many methods of "taxing" were tried: confiscation, borrowing, trading taxes for government services
- Plagues of the 14th century induced trade decline and changed agrarian organisations

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# The rise of the western world (2)

- Compare developments of the Netherlands and Spain
- From beliefs to institutional development
   Individualism? Protestant ethic?
- Where do beliefs come from ? Religion?
  - Do they permit/ encourage learning processes?
  - Christianity: evolve belief that nature should serve man
- Enter the competition of independent polities with a common belief structure and communications:
  - Portugal/ Spain (failed)
  - Netherlands/England (success)
  - France (in between)

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### The rise of the western world (3)

- Development of towns
  - Relative autonomy from external authority, trade liberties, liberty of conscience, representative government, long distance trade networks – demand for institutions and struggle for control of the polity
- England
  - Centralised feudal structure, Magna Carta, unity of Parliament (no class sections or regional estates), fiscal crisis of crown solved by accepting taxing powers of parliament, concepts of liberty, individual rights
- Netherlands
  - Revolt against Philip II (Spain), establishment of federation (with unanimity rule), religious tolerance
- Spain, France
  - Crown monopolizes power, declining trade, revenue for war, contrast of traditions between Castile and Aragon, bullion from the new world and Habsburg empire,
- Competition among polities
  - Trading rights for revenue, havens for dissidents, evolving bargaining strengths of rulers vs constituents, diverging conditions tempered by diverging belief structures. Individual rights became established in the "Petition of Rights" enacted in England in 1628. Spain/ France was different

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