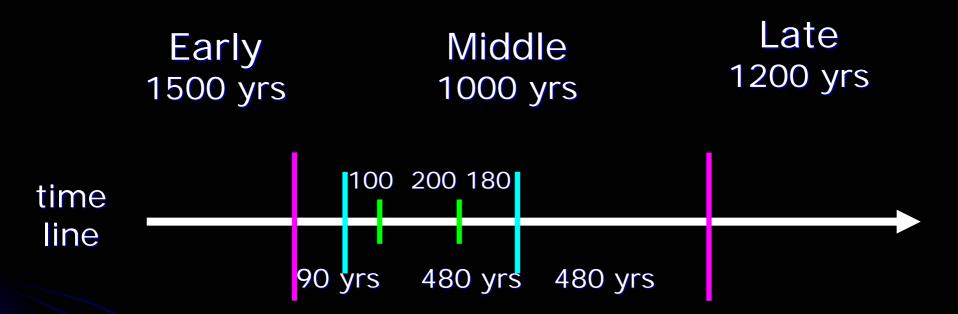
Time, scale, space

Workshop 2

TIME SCALE 1



Periods are archaeological tools they didn't exist in past in such a way, we use them to explain the past

TIME SCALE 2

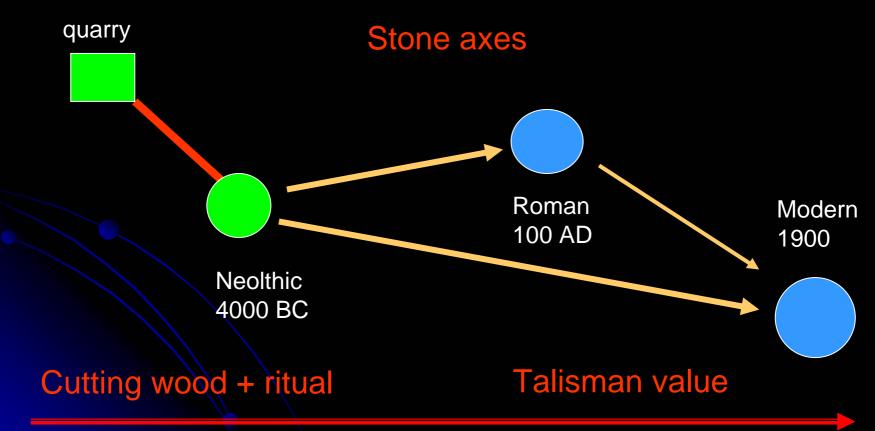
1 Archaeological periods differ in scale (uneven time spans)

2 Cultural defined periods differ in regional sense And: Coexistence of different cultural entities

3 Chronologies are never accurate enough, but often difficult to segregate in smaller periods to see more accurate spatial dynamics

TIME OF THE OBJECT 1

Live span of object : primary use, second life



Time and space line

TIME OF THE OBJECT 2

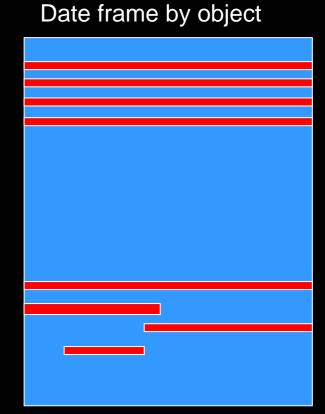
Datespan of dating object longer than livespan of dated site



Perceived lifespan of site in model covers datespan of object

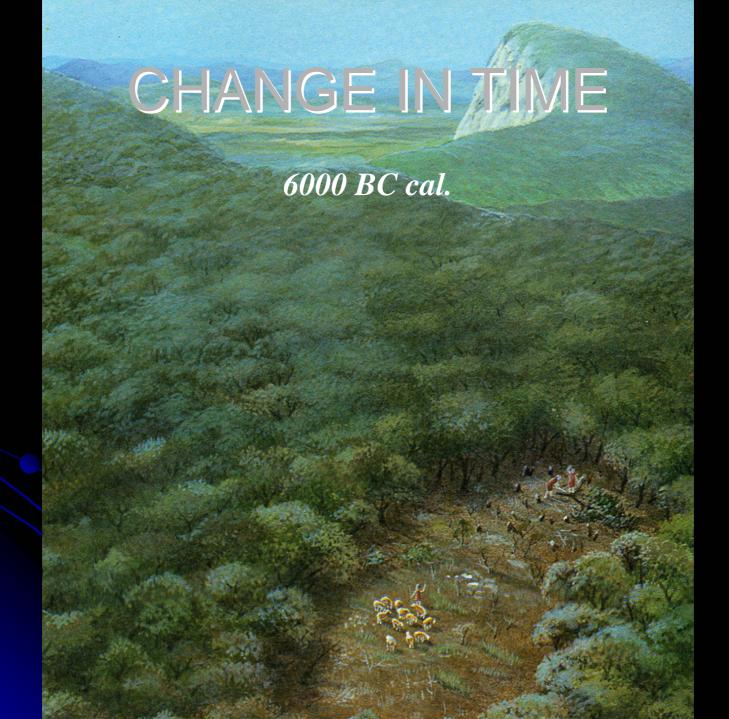


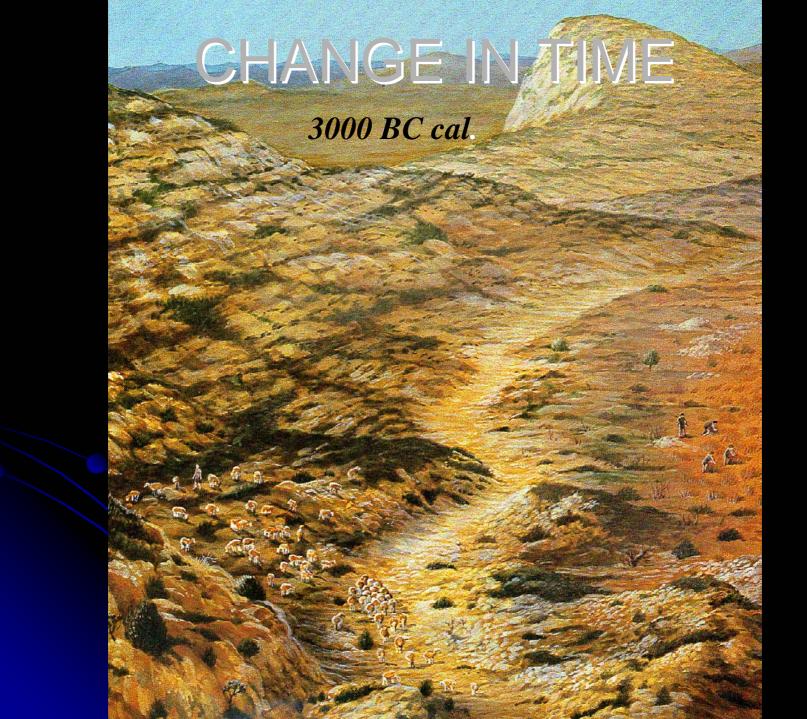
Obligation to introduce random lifespan to sites within datespans of dating objects



CHANGE IN TIME

How do you introduce the movement through time in static cartographic models? We represent the dynamics only by snapshots



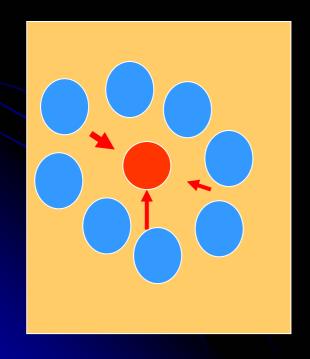


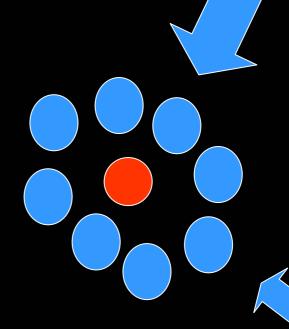
SPACE SCALE 1

Different scales:

stratigraphy; intra-site; site; local; regional; world

Implies looking at different dynamics: beware of influences from outside the frame of the study area



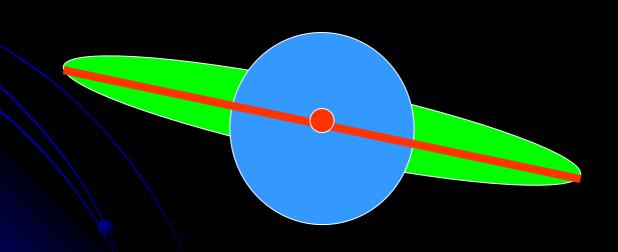


SPACE SCALE 2

TIME and SPACE

Perception of time

The perception of distance (time) changes the spatial scale



SPACE SCALE 3

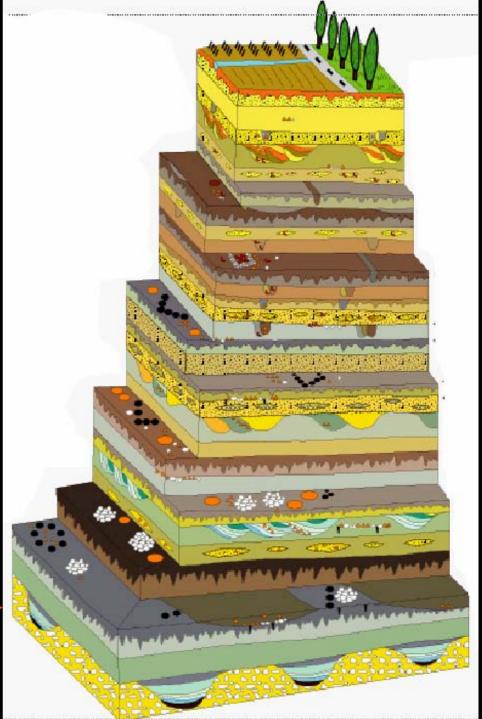
TIME and SPACE

Space changes through time

An illustration of landscape evolution since the Mesolithic Period

8000-7500 BC

Source: J.F. Berger 2001



What is the object of analysis?

Determining a given state of events

Or defining the process which led to this state

With the same data and the same question, two persons can work on wholy different aspects developping concepts in a early stage is therefore of prime importance

Different questions – different scales (spatial and temporal) 1

Modeling of duration of a system or a culture and/or of crises / threshholds:

The problem of acceleration in systems and of switchovers from one system to another

Different questions — different scales (spatial and temporal) 2

Searching the changes, processes beneath

Perceived dynamics on different time and space scales

Representations of space in time slices

Scales defined for research necessities

Dynamics of change differ in space

Time perception in different cultures (and of the researcher)

Perception of space depends on perception of time