

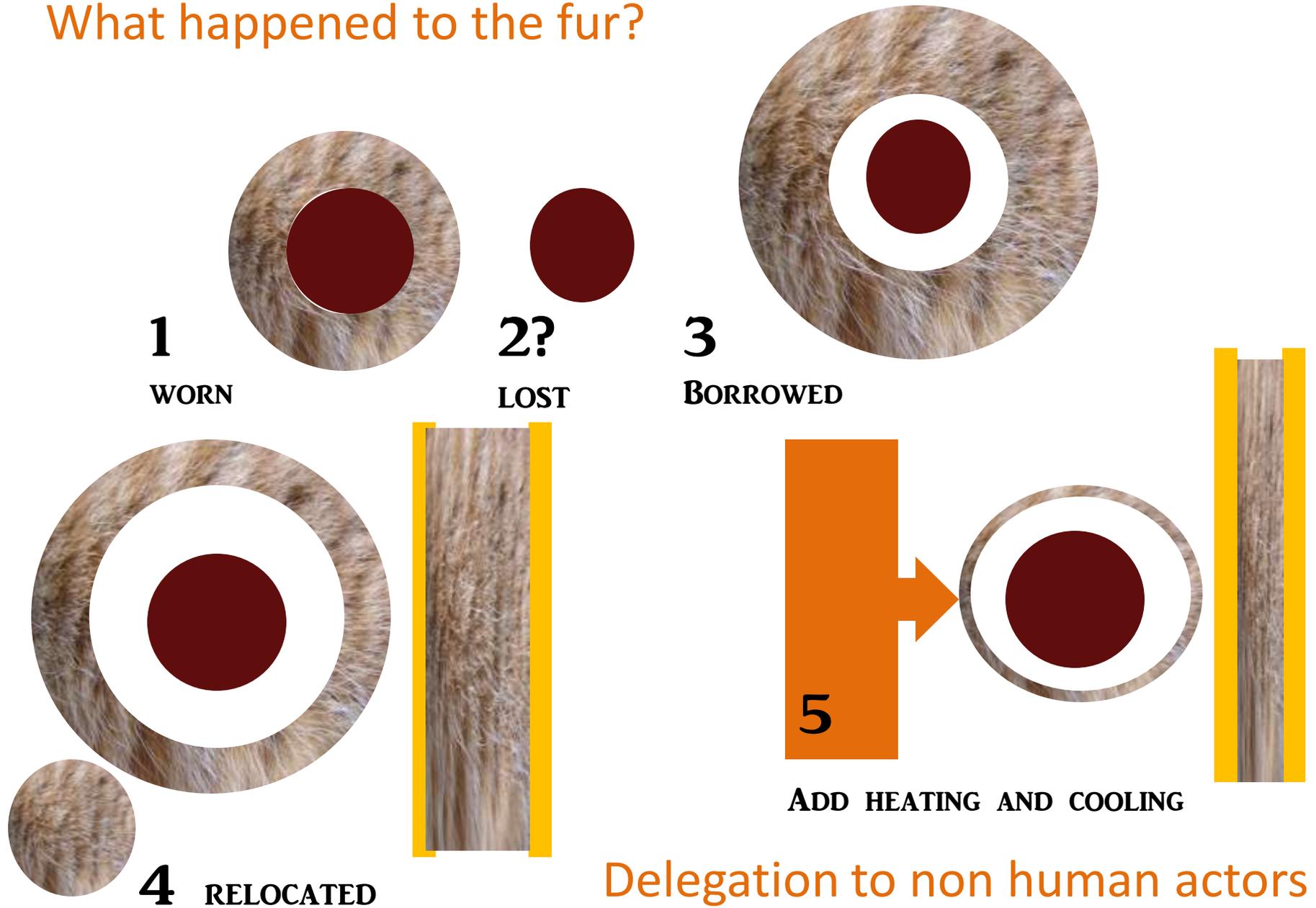


**Humans and their fur parted ways 33,000 years ago**

Wade 2003

Flickr creative commons

# What happened to the fur?



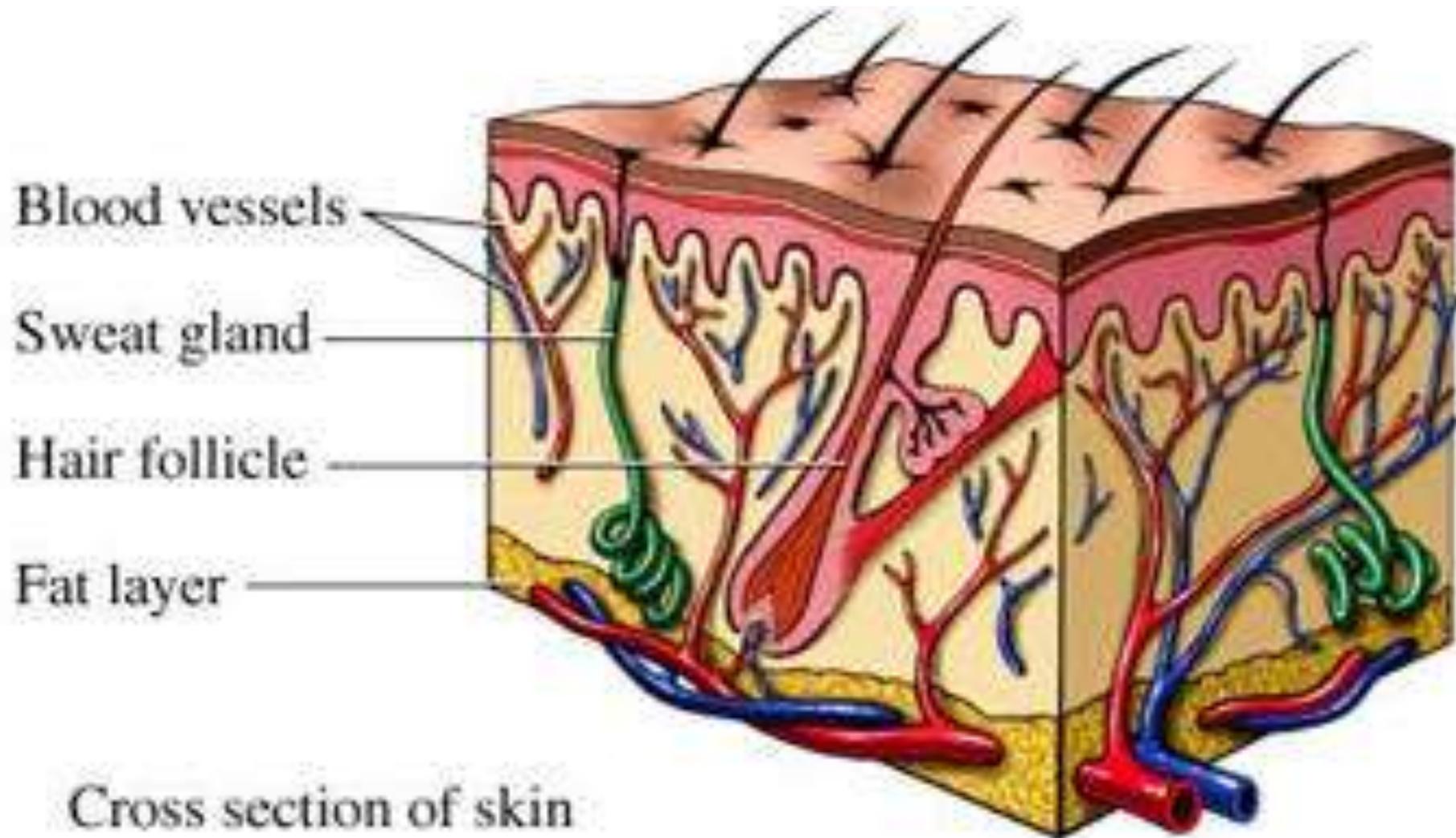


Hogarth, A midnight modern conversation 1732: example of 3

4



## Sweat: evaporative cooling 2



5

Other kinds of  
cooling





## Delegation

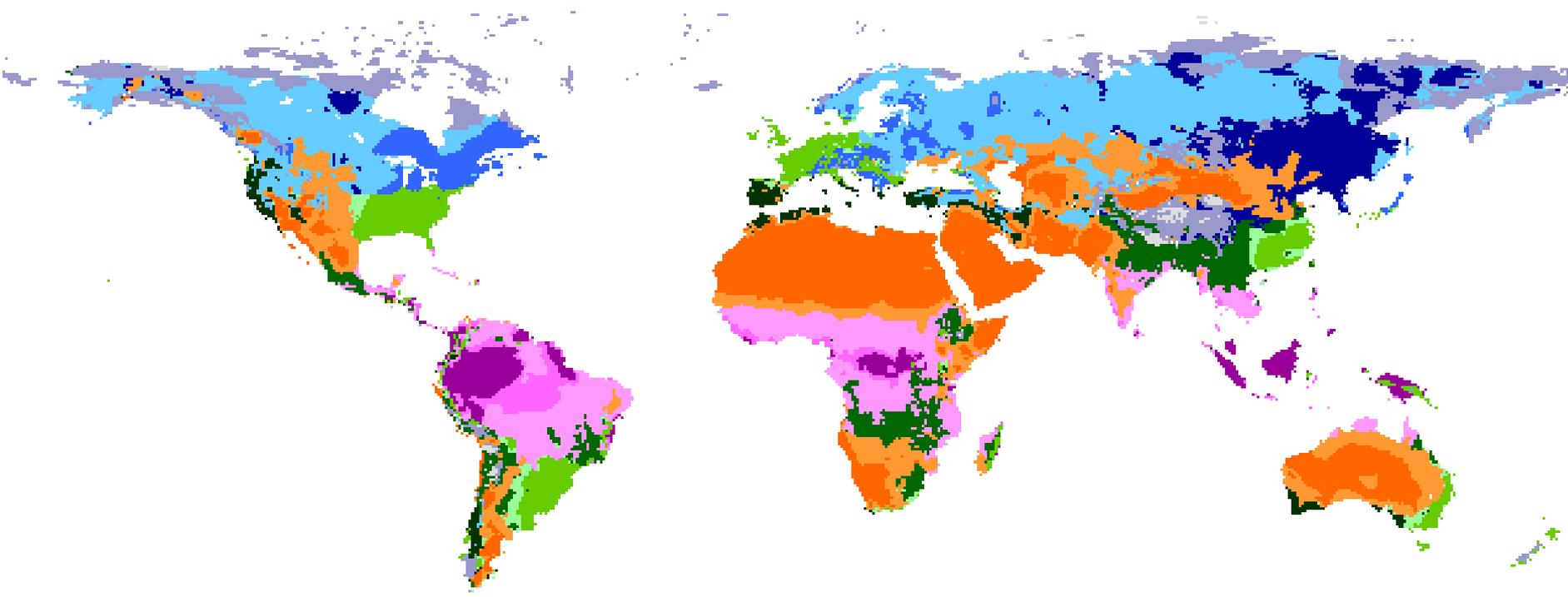
Different forms – from body to clothing/building

Generate different conventions

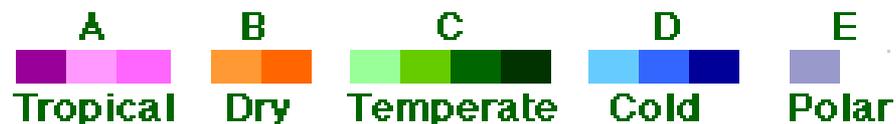
Tend to be increasingly resource intensive

Details vary around the world

## Different forms of delegation and standardisation – climates and seasons



**Koeppen's Climate Classification**  
by FAO - SDRN - Agrometeorology Group - 1997



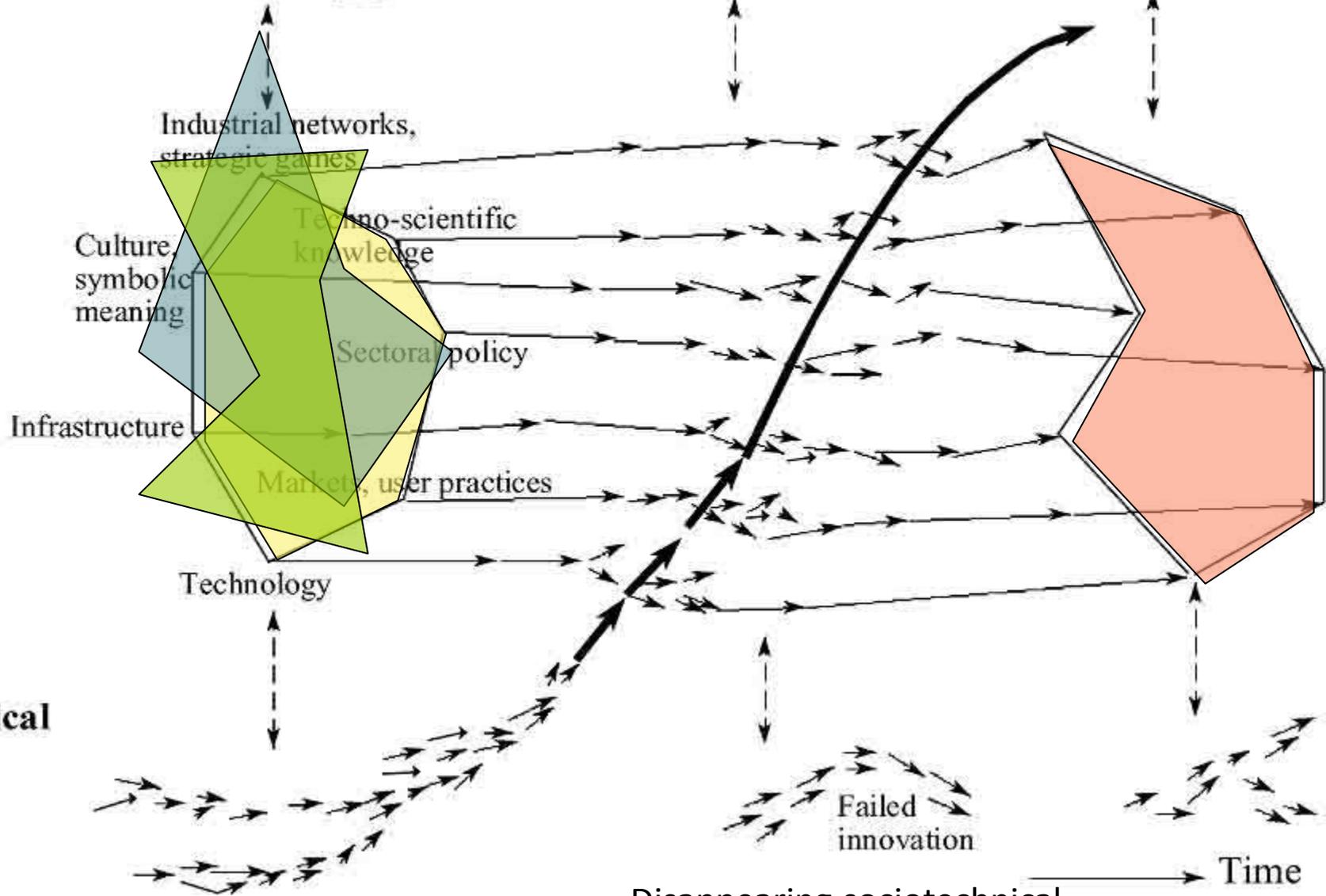
Characterising variation: 1900 by the Russian-German climatologist Wladimir Köppen

# Standardisation: Air conditioning as normal

Landscape developments

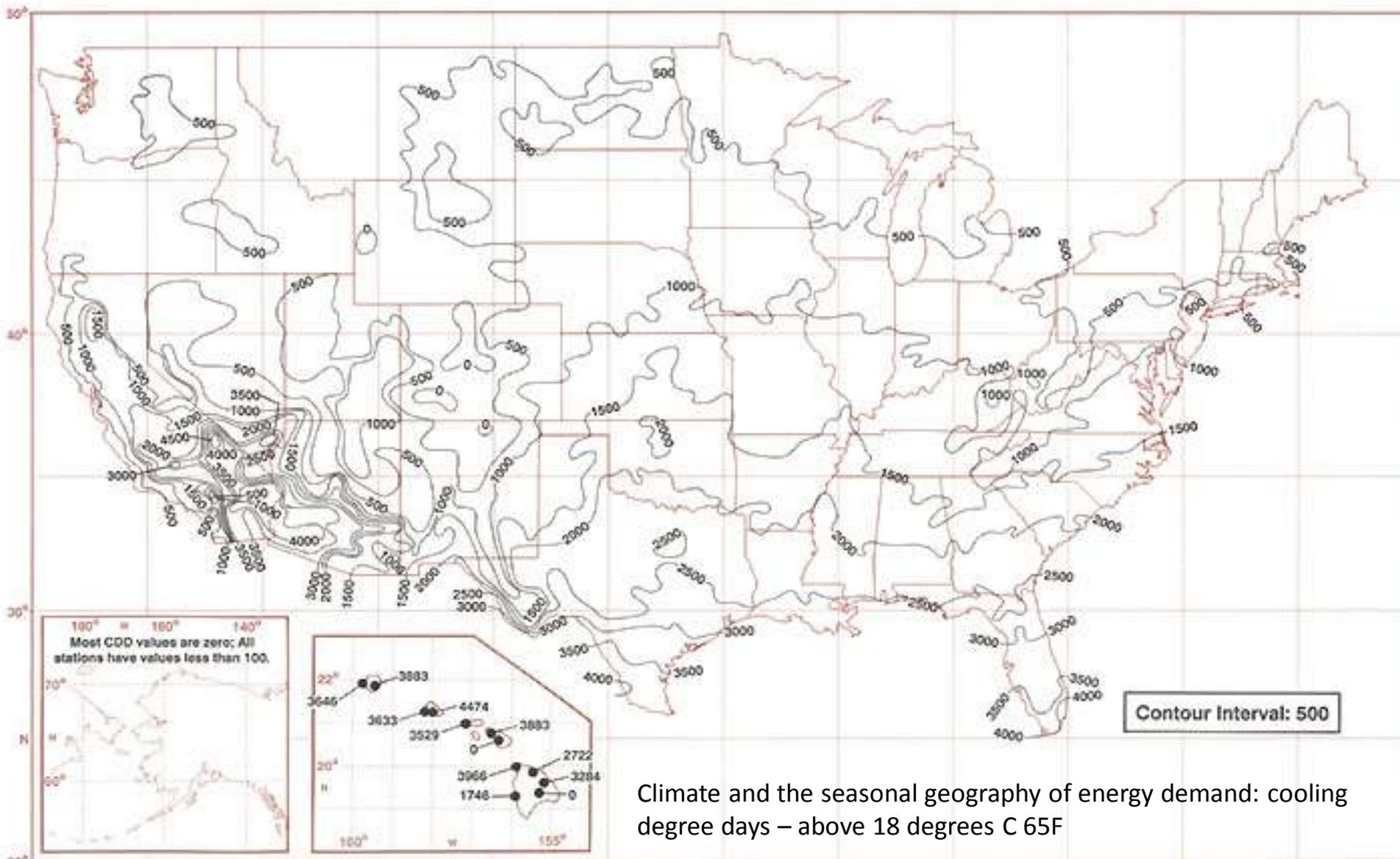
Socio-technical regimes

Technological niches



Disappearing sociotechnical systems: vernacular cooling

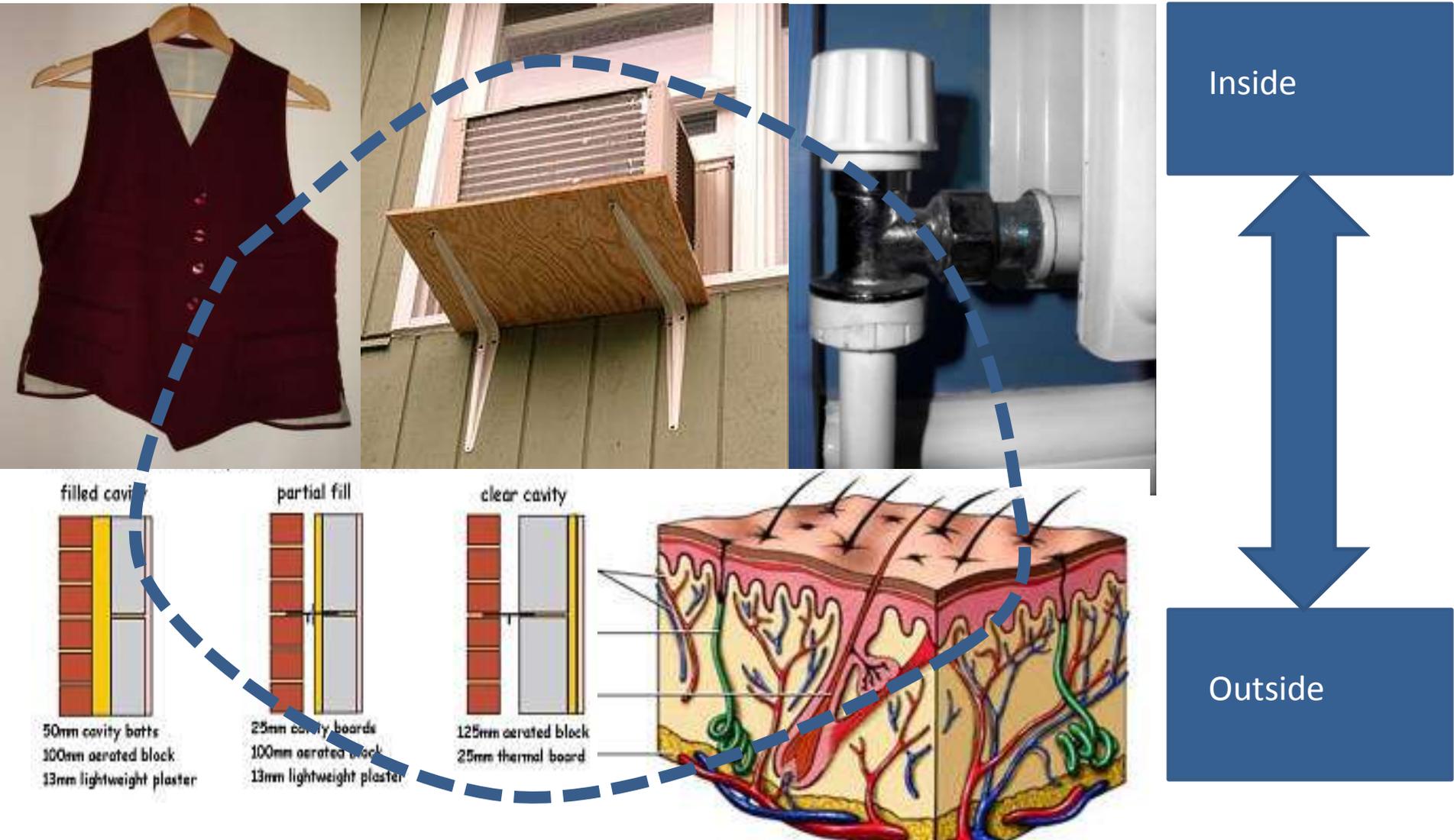
BASED ON NORMAL PERIOD 1961-1990



Climate and the seasonal geography of energy demand: cooling degree days – above 18 degrees C 65F

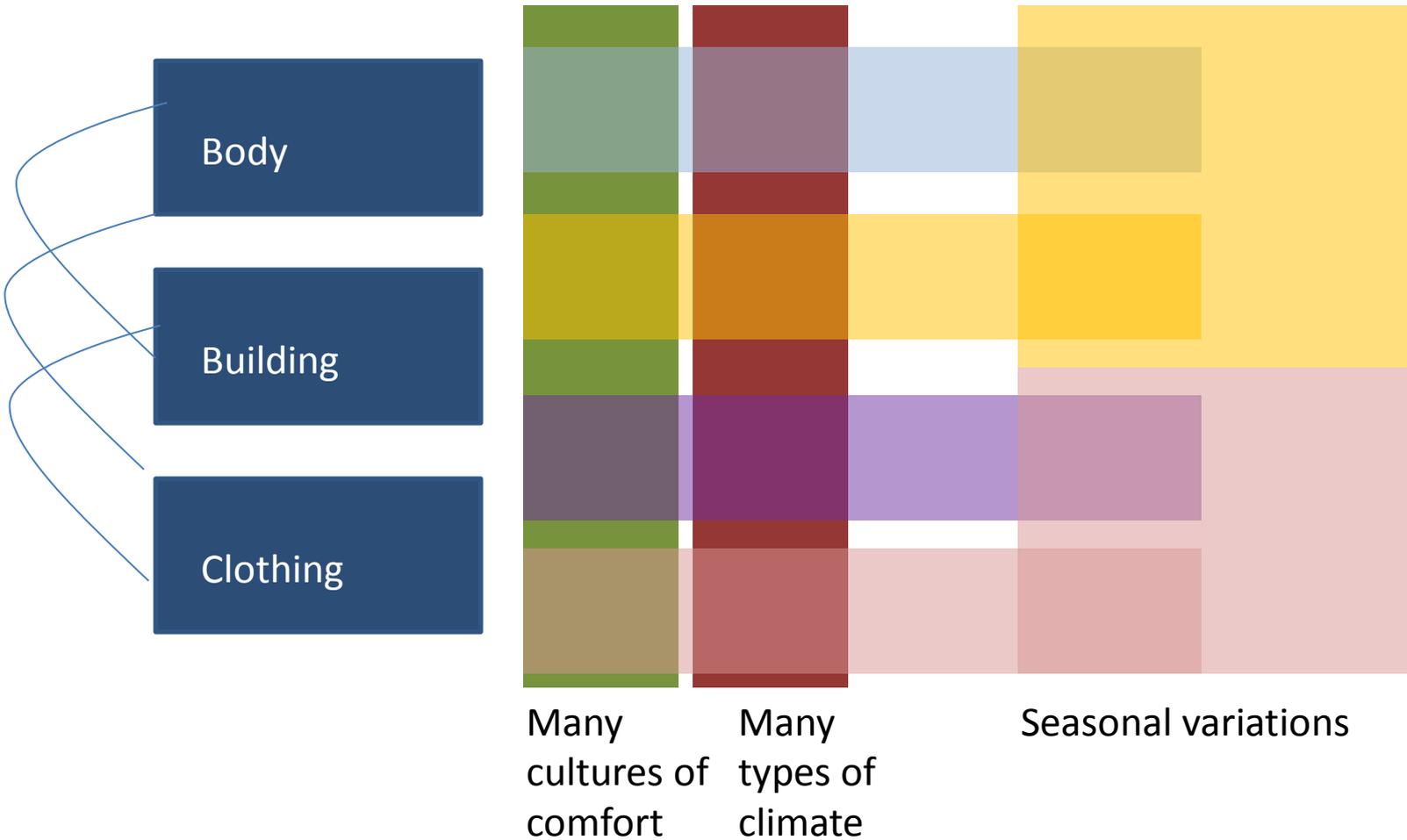
One HDD means that the temperature conditions outside the building were equivalent to being below the temperature required for thermal comfort inside the building by one degree for one day.

A focus on generic trends over time is all very well but it tends to overlook continuous interaction between co-existing elements of indoor-outdoor climate management





New configurations – extending the season



Energy demand relates to the way these elements fit together at different times of year  
 ..but current pattern is resource intensive, adding to global (outdoor) climate change

## Fixity and flexibility



Current configurations:

Systemic vulnerability to outdoor extremes – very hot or very cold  
'hard' and 'soft' wiring? Where is the flexibility?

スーツ

COOLBIZ



28℃

私たちはチーム・マイナス8%の一員として  
地球温暖化防止を推進するため、  
消費時の室温を28℃にしています。  
5月では、28℃で快適に仕事をするため  
スーツからCool Bizへ衣替えしています。



セイコーインスツル株式会社  
E-4-0177001

セイコーインスツル グループ

# Reconfiguring the clo?



▲ Sii company poster

**Fixity and**

**flexibility** of

configurations – during the  
year and over the years

**Dynamic relations**

between things and people –  
during the year

**Delegation** from one technology to  
the next – over long periods of time

**Standardisation** from many  
starting points

How to conceptualise indoor-  
outdoor relations across different  
time scales and cycles

The dynamics of dynamic  
configurations

Natural and 'social' rhythms

Systems, units and boundaries

Diversity and trends