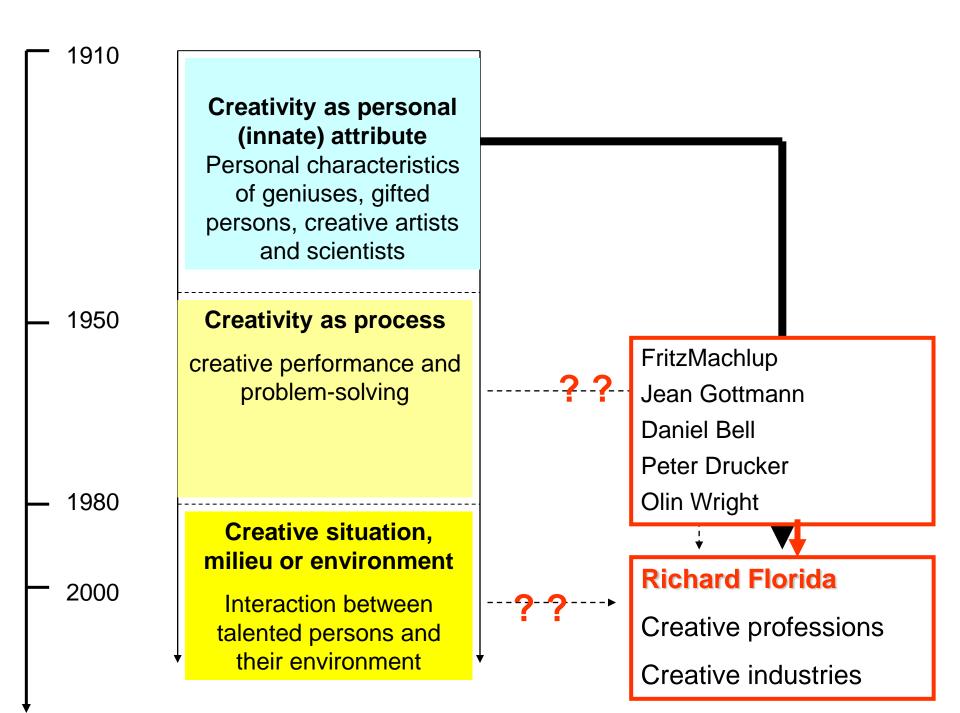
Milieus of Creativity

Peter Meusburger (Heidelberg University)



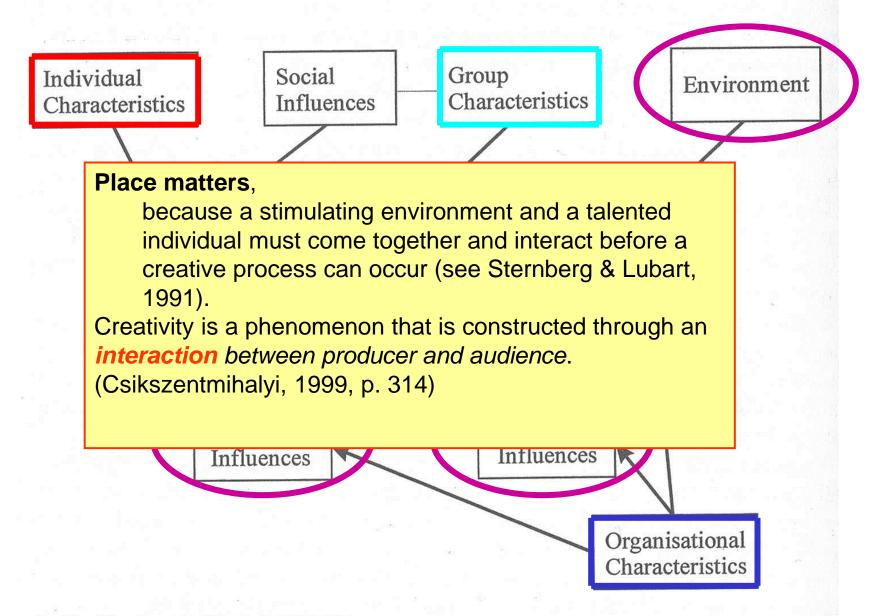
Creativity as personal (innate) attribute	Ostwald 1909
attributes of geniuses, gifted persons, creative artists and scientists	
	Guilford 1950
Creativity as process Stages of creative performance and problem-solving	
Creative situation, milieu or environment Interaction between talented persons and their environment	Amabile (1983) Csikszentmihalyi (1988) Woodman et al. (1993)
	(innate) attribute attributes of geniuses, gifted persons, creative artists and scientists Creativity as process Stages of creative performance and problem-solving Creative situation, milieu or environment Interaction between talented persons and

The turn to creative situations, environments and interactions

Csikszentmihalyi (1988, pp. 325-326)

- We cannot study creativity by isolating individuals and their works from the social and historical milieu in which their actions are carried out.
- This is because what we call creative is never the result of individual action alone; it is the product of three main shaping forces:
 - a set of social institutions, or <u>field</u>, that selects from the variations produced by individuals those that are worth preserving;
 - a stable cultural <u>domain</u> that will preserve and transmit the selected new ideas or forms to the following generations; and finally t
 - the *individual*, who brings about some change in the domain, a change that the field will consider to be creative.
- → Creativity is a phenomenon that results from interaction between these three systems.

Factors contributing to Creativity



Quelle: Woodman R. W. et al. 1993, 311.

Definitions of Creativity

D'Agostino (1984, pp. 88–102)

* "true human creativity involves novelty, value, appropriateness to context, and unpredictability in terms of antecedent knowledge, available recipes, existing rules, and environmental stimuli"

Oldham and Cummings (1996, p. 608) define creative performance:

- → "as products, ideas, or procedures that satisfy two conditions:
- → (1) they are novel or original and
- → (2) they are potentially relevant for, or useful to, an organization".

Woodman, Sawyer, & Griffin (1993, p. 293) define creativity

* "as the generation of a valuable, useful new product, service, idea, procedure, or process by individuals working together in a complex social system".

Definitions of Creativity

Ford (1996, p. 1115)

 "creativity is a subjective judgment made by members of the field about the novelty and value of a product; it is not an inherent quality that can be measured independent of social-construction processes within a field.
 [Creativity is] a domain-specific, subjective judgment of the novelty and value of an outcome of a particular action"

Shalley, Gilson, & Blum (2000, p. 215) stated that

* "creativity involves the production, conceptualization, or development of novel and useful ideas, processes, or procedures by an individual or by a group of individuals working together."

M. Boden (2004, p. 1):

→ "creativity is the ability to come up with ideas or artefacts that are new, surprising and valuable"

Distinction between everyday problem-solving and outstanding achievements

- Many psychologists (e.g. Simonton 2000; Funke 2000, p. 284) have argued that creativity is an all-pervasive phenomenon of human nature. All people constantly need and apply creativity to solve their everyday problems.
- M. Boden (1994, pp. 76–77; 2004, p. 2) recommends drawing a line between psychological creativity and historical creativity.
 - Psychological creativity involves coming up with a surprising, valuable idea that is new to the person to whom it occurs, regardless of how many other people have had that idea before
 - Historical creativity means that no one else has had the idea or made the artefact before (as far as is known); it has arisen for the first time in human history.
- a distinction between everyday problem-solving and outstanding achievements is necessary in order to avoid misunderstandings

Richard Florida's concept of creative class

According to Florida (2004)

- the creative class consists of people
 - "who add economic value through their creativity. It thus includes a great many knowledge workers, symbolic analysts and professional and technical workers" (p. 68)
- Creative core:
 - Scientists, engineers, university professors, poets and novelists, artists, entertainers, actors designers and architects, non-fiction writers, editors, cultural figures, think-tank researchers, analysts and other opinion makers

Creative professionals

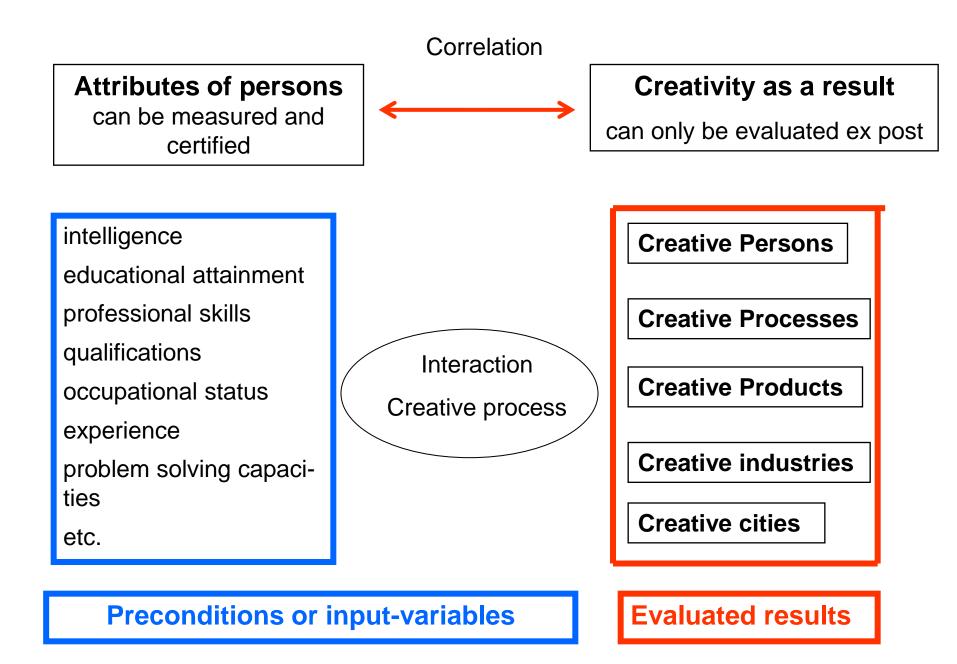
 Financial services, the legal and health care professions, and business management (p. 69)

→ Bohemians

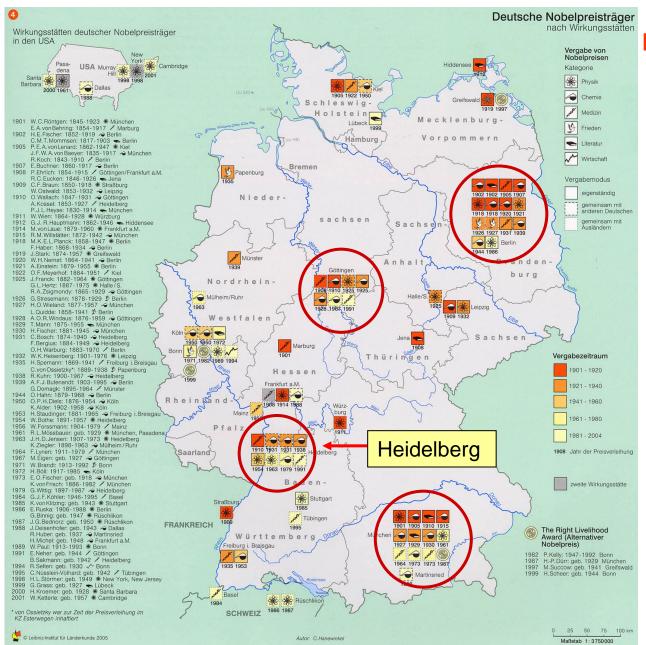
→ "Some 38 million Americans, 30 percent of all employed people belong to this new class" (Florida 2004, p. 8)

Why are the terms <u>creative professions</u> or <u>creative</u> <u>industries</u> regarded as inappropriate?

- ➔ If we accept the concept of psychological creativity and the assumption that anybody is creative in his or her daily problem-solving,
 - almost all professions are creative
 - then it makes more sense to distinguish the work force according to their educational attainment, professional skills or decision making power
- → If we adopt the *concept of historical creativity*, then one must accept
 - that creativity can be neither predicted nor administered,
 - that members of a given profession are not invariably creative.
 - that a given profession has only a tiny proportion of historically creative people,
- If these propositions are accepted, then it makes no sense to label a whole industry or whole groups of professions as creative before evaluating their ideas and products.
- → None of Florida's creative professions perpetually engages in creative processes and continuously invents and fabricates creative products.



Nobel Prize winners in Germany 1901 - 2004



Hotspots of brain power

 Generation of creative ideas

_Evaluation of creative ideas

Creative Environment

is not a predictor

but a potential that has to be used and activated by talented agents

Source: Nationalatlas der Bundesrepublik Deutschland, vol. 6 (2005)

Europäische Zentren führender Naturwissenschaftler

 Wirkungsorte f
ührender Wissenschaftler vom 16. bis zum 19. Jahrhundert







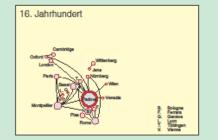


Mailstab 1: 500000

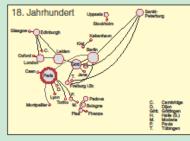
Dargostellt sind Orto, an denon im jeweiligen Jahrhundert mindestens zwei - im 19. Jh. mindestens sieben - berühmte Naturwissenschaftler (zeitweise) tälig waren.

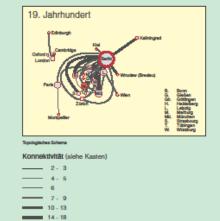
Maximum (vgl. Angabo in Karlo)
 mind. 2 (7)
 O Lettrois-Institut Str Landoniumde 2011
 Kerborgshelder: J. Moser

 Netzwerkverbindungen f
ührender Wissenschaftler vom 16. bis zum 19. Jahrhundert







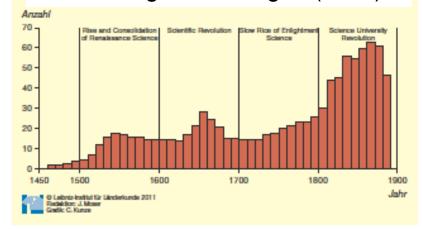


Autoren: M. Hoyler, P.J. Taylor

Workplaces and connectivity of leading European scientists

16th – 19th century

Eminent European scientists according to Gascoigne (1992)



Source: Hoyler & Taylor 2011 forthcoming

Which environmental factors contributed to the historic up-and-down movements of creativity and scientific excellence?

Extremely high creativity

1560 - 1620 1850 - 1914 1920 - 1930 2002 - ? very low intellectual level 1623 - 1830 1933 - 1950s

Creative environment

- The environment is an important constituent of creativity
- An environment is created by actors and at the same time influences actors
- Creative individuals are raised, trained and embedded in particular milieus;
- Creative individuals are attracted by certain places
 - where they can develop their abilities and ideas,
 - where they have the opportunities to interact with other knowledgeable agents,
 - where they receive the necessary support, the desirable inspirations and challenges
 - where they dispose of the necessary resources
- Other places and regions constantly lose most of their talented young generation, intellectuals, scientists, and artists through persistent brain drain.
- Creative persons are likely to be more sensitive to environmental stimuli than are less creative individuals

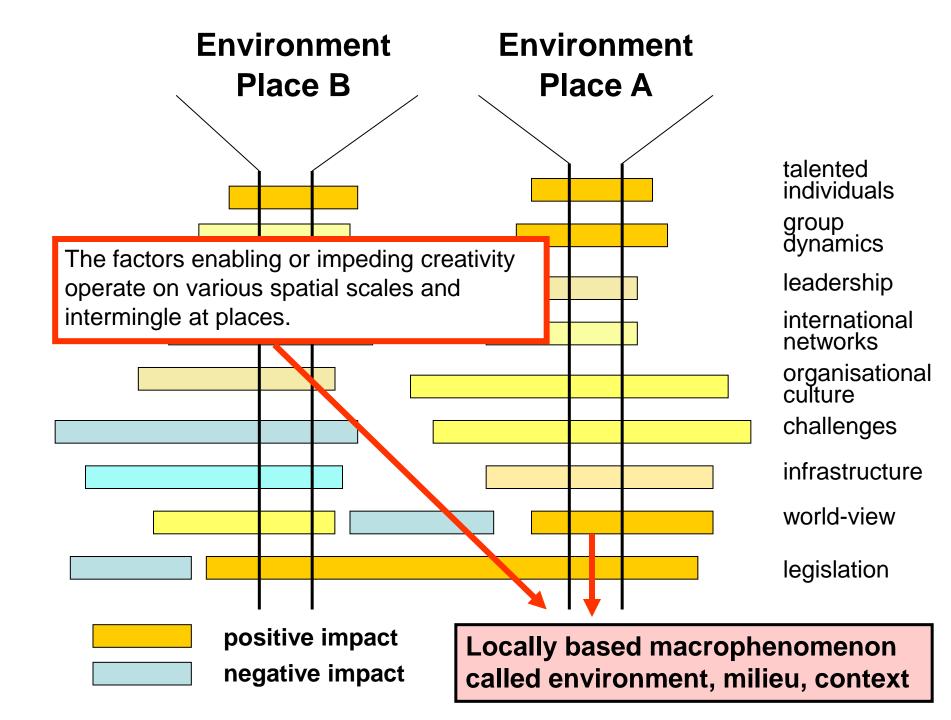
Place matters,

 because a stimulating environment and a talented individual must come together and interact before a creative process can occur (see Sternberg & Lubart, 1991)

The role of environments (milieus)

A milieu or environment

- → is not a container that includes individuals, institutions, and infrastructure.
- is not produced solely by a co-presence of particular constituents. Much more decisive are their interrelations and mutual modifications.
- is more than a stage on which actions take place, however it is not an active venue that shapes the practices of knowledge acquisition and circulation
- is not a predictor or factor of influence in a correlational sense, but a potential that will be utilized by some agents and disregarded by others
- The chances and stimuli of an environment are differently perceived by individuals with different cognitive skills and knowledge.
- The potentiality of a place must be activated through human communication and interaction.
- The factors enabling or impeding creativity operate on various spatial scales, but finally they take effect at places



Thank you for your attention