

3.Science, Technology, Art, Future,  
Constituent parts of modern identity.  
Need for a coherent view of the world.

### 1.Science

-natural sciences

-observation- speculation-conclusion, many single cases-general laws of nature  
dechiffre the codes of nature and make use of them

turn of the century- innovation in physics, theory of relativity, equivalence of energy  
and mass, space and time

only change and movement are absolute-(Aristotle Physica)

the paradigm of the method of natural sciences prevails

-separation of knowledge into natural sciences and humanities

-humanities in crises in modernism struggle for emancipation

reflection: Edmund Husserl: The Crisis of European Sciences and Transcendental  
Phenomenology 1936

-informatics, genetics, bionics, genetical reproduction, intervention into genetical  
codes, artificial intelligence

natural sciences or humanities? this question doesn't make sense any more

natural sciences have always been humanities at the same time

science and ethics

architecture as a humanistic discipline, practice after Panofsky

### 2.Technology

-greek techné united all practical skills, art in our terms didn't exist at all

-tecnology, /from tecné/ succesful response to the constant challenge, how to

survive on, (and by now outside) the earth, always in cooperation, never individually  
/the lonely individual probably would soon die, even Robinson found soon a fellow)

-eremits, opposing old society, they introduced a transition to new technologies in the  
middle ages

-man as emerging species from the animals world by inventing different technologies

-engineering: technology based on abstract calculation, replacing practice, based on pure sensual experience and skill

printing, steam, electricity, transport, automobile, aviation, communication, (morse, broadcasting, television, radio locator, computer, information technology, nuclear technology, genetic technology)

Martin Heidegger: Question, Concerning Technology

### 3. Art

-art in greek antiquity didn't exist, incorporated in techné, see above

-arts appear in post antic medieval european culture

septem artes liberales- seven free arts

trivium—grammatica, dialectica, retorica,

quadrivium-astronomia, aritmetica, geometria, musica

no painting, no sculpture no architecture

-modern arts, as autonomous discipline

Konrad Fiedler: artistic creation is superior /or at least equal/ to natural

creation, art begins, where nature ends and equal to man made nature=technology

influence of modern sciences, observation is based on instruments, not direct sensory perception

first definition of coming 20. century, non figurative arts and activism

the problem of arts and aesthetics

Kant the human condition without interest can only be the condition with moral interest

### 4. Future

-past accumulating quantity of facts, but already closed to us

-present can not be captured it becomes past in a second

Augustinus if nobody asks I know, if I'm asked I don't know, it is the extension of the soul

-future doesn't exist, but as imagination, through the short transitory status of being present it becomes past rapidly

futurism, imagination, fiction, projection into the non existing

medieval futurism visions of heaven and hell

faith

redemption, salvation, messianism

avantgardism, obsession with novelty

new and interesting replace beauty and truth

science fiction Verne Huxley Orwell, Lem

ideal projects in history of architecture

Dante circular structure of the hell

renaissance: Filarete,

ideal city plans

enlightenment: french visionary architects, Ledoux, Boullée, Lequeu

19. century garden city movement Ebenezer Howard, Camillo Sitte

modernism: San Elia, Tony Garnier, Russians, Le Corbusier,

Archigram, Price, Banham

futurism and utopia (non existing place) non lieu, no place, anti place, lost of place,

commercial futurism, general dominance of marketing strategy

tourism, starchitecture

contemporary contradiction: museums as futuristic buildings, housing and presenting collections of objects of the past

Koolhaas, Gehry, Liebeskind, Hadid etc.