

**Как возможна социальная эволюция если индивид имеет свободу выбора**

**How social evolution may work if human beings have freedom of actions**

Добролюбов Сергей Васильевич  
Sergey V. Dobrolyubov  
[dobrolyubovsv@mail.ru](mailto:dobrolyubovsv@mail.ru)

## Freedom and Determinism / Свобода и детерминизм

- There is uncertainty between eventive and structural properties of every evolutional processes.
- The border between MICRO and MACRO vision of Evolution is relative to active subject and scale of subject' events

Type of Evolution	Scale of observation (cognition) of Evolution	
	MICRO	MACRO
Physical matter	Particle interactions	
Biologic life		Taxon (species) adaptations
Society	Events, cases,...	← Man actions → Forms, structures, objective laws...
Galaxy		Star transformations
Universe		Galaxy transformations

**Events are non-determined**  
События недетерминированы

### Events, Cases, Acts...

Random, Probabilistic, Unexpected,  
Subjective, Agential, Arbitrary

### События, действия...

Случайные, вероятностные, неожиданные  
субъективные, агентные, произвольные

**States (forms) are determined**  
Состояния детерминированы

### States, Forms..

Determined, Pre-assigned,  
Objective,

### Состояния, формы...

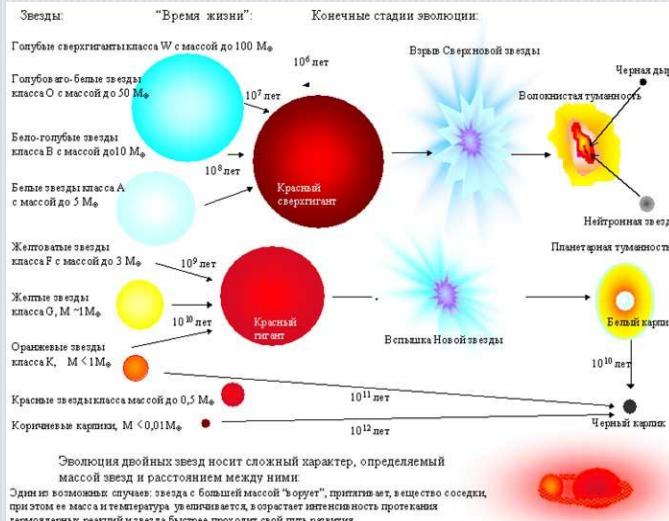
детерминированные, потенциально заданные,  
объективные,

# Typologies, Homology Series...are objective Типологии, гомологические ряды... объективны

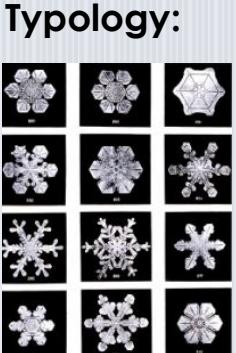
## Periodic Table:

ГРУППЫ ЭЛЕМЕНТОВ																																																							
Периоды	I	II	III	IV	V	VI	VII																																																
1	H 1 водород	Be 3 бериллий	B 4 бор	C 6 углерод	N 7 азот	O 8 кислород	F 9 хлор																																																
2	Li 3 литий	Ne 10 нейон	He 2 гелий																																																				
3	Na 11 натрий	Mg 12 магний	Al 13 алюминий	Si 14 силикат	P 15 фосфор	S 16 сера	Cl 17 хлор																																																
4	K 19 калий	Ca 20 кальций	Sc 21 скандий	Tl 22 тиль	V 23 титан	Cr 24 хром	Mn 25 мanganese																																																
5	Cu 29 курант	Zn 30 цинк	Ga 31 галин	Ge 32 германий	As 33 арсений	Se 34 селен	Br 35 бронз																																																
6	Rb 37 рубидий	Sr 38 стронций	Y 39 иодий	Yb 40 иодий	La 41 лантий	Lu 42 лантиний	Te 43 теслен																																																
7	Ag 47 серебро	Cd 48 кальций	In 49 индий	Sn 50 станин	Sb 51 станин	Te 52 теслен	I 53 иод																																																
8	Cs 55 цезий	Ba 56 барий	La 57-71 лантий	Hf 72 ханфи	Ta 73 тантарий	W 74 вобрамий	Re 75 рэй																																																
9	Fr 79 франций	Ra 87 радий	Th 88 титан	Pb 82 песчаный	Bi 83 бисмут	Po 84 полоний	At 85 атас																																																
10	Ra 88 радий						Rn 86 радон																																																
Высшие оксиды	R <sub>2</sub> O	RO	R <sub>2</sub> O <sub>3</sub>	RO <sub>2</sub>	R <sub>2</sub> O <sub>5</sub>	RO <sub>3</sub>	R <sub>2</sub> O <sub>7</sub>																																																
Легучие водородные соединения							RO <sub>4</sub>																																																
	RH <sub>4</sub>	RH <sub>3</sub>	H <sub>2</sub> R	HR																																																			
ЛАНТИНОИДЫ																																																							
[57] La [58] Ce [59] Pr [60] Nd [61] Pm [62] Sm [63] Eu [64] Gd [65] Tb [66] Dy [67] Ho [68] Er [69] Tm [70] Yb [71] Lu	[54] La [55] Ce [56] Pr [57] Nd [58] Sm [59] Eu [60] Gd [61] Tb [62] Dy [63] Ho [64] Er [65] Tm [66] Yb [67] Lu	[53] La [54] Ce [55] Pr [56] Nd [57] Sm [58] Eu [59] Gd [60] Tb [61] Dy [62] Ho [63] Er [64] Tm [65] Yb [66] Lu	[52] La [53] Ce [54] Pr [55] Nd [56] Sm [57] Eu [58] Gd [59] Tb [60] Dy [61] Ho [62] Er [63] Tm [64] Yb [65] Lu	[51] La [52] Ce [53] Pr [54] Nd [55] Sm [56] Eu [57] Gd [58] Tb [59] Dy [60] Ho [61] Er [62] Tm [63] Yb [64] Lu	[50] La [51] Ce [52] Pr [53] Nd [54] Sm [55] Eu [56] Gd [57] Tb [58] Dy [59] Ho [60] Er [61] Tm [62] Yb [63] Lu	[49] La [50] Ce [51] Pr [52] Nd [53] Sm [54] Eu [55] Gd [56] Tb [57] Dy [58] Ho [59] Er [60] Tm [61] Yb [62] Lu	[48] La [49] Ce [50] Pr [51] Nd [52] Sm [53] Eu [54] Gd [55] Tb [56] Dy [57] Ho [58] Er [59] Tm [60] Yb [61] Lu	[47] La [48] Ce [49] Pr [50] Nd [51] Sm [52] Eu [53] Gd [54] Tb [55] Dy [56] Ho [57] Er [58] Tm [59] Yb [60] Lu	[46] La [47] Ce [48] Pr [49] Nd [50] Sm [51] Eu [52] Gd [53] Tb [54] Dy [55] Ho [56] Er [57] Tm [58] Yb [59] Lu	[45] La [46] Ce [47] Pr [48] Nd [49] Sm [50] Eu [51] Gd [52] Tb [53] Dy [54] Ho [55] Er [56] Tm [57] Yb [58] Lu	[44] La [45] Ce [46] Pr [47] Nd [48] Sm [49] Eu [50] Gd [51] Tb [52] Dy [53] Ho [54] Er [55] Tm [56] Yb [57] Lu	[43] La [44] Ce [45] Pr [46] Nd [47] Sm [48] Eu [49] Gd [50] Tb [51] Dy [52] Ho [53] Er [54] Tm [55] Yb [56] Lu	[42] La [43] Ce [44] Pr [45] Nd [46] Sm [47] Eu [48] Gd [49] Tb [50] Dy [51] Ho [52] Er [53] Tm [54] Yb [55] Lu	[41] La [42] Ce [43] Pr [44] Nd [45] Sm [46] Eu [47] Gd [48] Tb [49] Dy [50] Ho [51] Er [52] Tm [53] Yb [54] Lu	[40] La [41] Ce [42] Pr [43] Nd [44] Sm [45] Eu [46] Gd [47] Tb [48] Dy [49] Ho [50] Er [51] Tm [52] Yb [53] Lu	[39] La [40] Ce [41] Pr [42] Nd [43] Sm [44] Eu [45] Gd [46] Tb [47] Dy [48] Ho [49] Er [50] Tm [51] Yb [52] Lu	[38] La [39] Ce [40] Pr [41] Nd [42] Sm [43] Eu [44] Gd [45] Tb [46] Dy [47] Ho [48] Er [49] Tm [50] Yb [51] Lu	[37] La [38] Ce [39] Pr [40] Nd [41] Sm [42] Eu [43] Gd [44] Tb [45] Dy [46] Ho [47] Er [48] Tm [49] Yb [50] Lu	[36] La [37] Ce [38] Pr [39] Nd [40] Sm [41] Eu [42] Gd [43] Tb [44] Dy [45] Ho [46] Er [47] Tm [48] Yb [49] Lu	[35] La [36] Ce [37] Pr [38] Nd [39] Sm [40] Eu [41] Gd [42] Tb [43] Dy [44] Ho [45] Er [46] Tm [47] Yb [48] Lu	[34] La [35] Ce [36] Pr [37] Nd [38] Sm [39] Eu [40] Gd [41] Tb [42] Dy [43] Ho [44] Er [45] Tm [46] Yb [47] Lu	[33] La [34] Ce [35] Pr [36] Nd [37] Sm [38] Eu [39] Gd [40] Tb [41] Dy [42] Ho [43] Er [44] Tm [45] Yb [46] Lu	[32] La [33] Ce [34] Pr [35] Nd [36] Sm [37] Eu [38] Gd [39] Tb [40] Dy [41] Ho [42] Er [43] Tm [44] Yb [45] Lu	[31] La [32] Ce [33] Pr [34] Nd [35] Sm [36] Eu [37] Gd [38] Tb [39] Dy [40] Ho [41] Er [42] Tm [43] Yb [44] Lu	[30] La [31] Ce [32] Pr [33] Nd [34] Sm [35] Eu [36] Gd [37] Tb [38] Dy [39] Ho [40] Er [41] Tm [42] Yb [43] Lu	[29] La [30] Ce [31] Pr [32] Nd [33] Sm [34] Eu [35] Gd [36] Tb [37] Dy [38] Ho [39] Er [40] Tm [41] Yb [42] Lu	[28] La [29] Ce [30] Pr [31] Nd [32] Sm [33] Eu [34] Gd [35] Tb [36] Dy [37] Ho [38] Er [39] Tm [40] Yb [41] Lu	[27] La [28] Ce [29] Pr [30] Nd [31] Sm [32] Eu [33] Gd [34] Tb [35] Dy [36] Ho [37] Er [38] Tm [39] Yb [40] Lu	[26] La [27] Ce [28] Pr [29] Nd [30] Sm [31] Eu [32] Gd [33] Tb [34] Dy [35] Ho [36] Er [37] Tm [38] Yb [39] Lu	[25] La [26] Ce [27] Pr [28] Nd [29] Sm [30] Eu [31] Gd [32] Tb [33] Dy [34] Ho [35] Er [36] Tm [37] Yb [38] Lu	[24] La [25] Ce [26] Pr [27] Nd [28] Sm [29] Eu [30] Gd [31] Tb [32] Dy [33] Ho [34] Er [35] Tm [36] Yb [37] Lu	[23] La [24] Ce [25] Pr [26] Nd [27] Sm [28] Eu [29] Gd [30] Tb [31] Dy [32] Ho [33] Er [34] Tm [35] Yb [36] Lu	[22] La [23] Ce [24] Pr [25] Nd [26] Sm [27] Eu [28] Gd [29] Tb [30] Dy [31] Ho [32] Er [33] Tm [34] Yb [35] Lu	[21] La [22] Ce [23] Pr [24] Nd [25] Sm [26] Eu [27] Gd [28] Tb [29] Dy [30] Ho [31] Er [32] Tm [33] Yb [34] Lu	[20] La [21] Ce [22] Pr [23] Nd [24] Sm [25] Eu [26] Gd [27] Tb [28] Dy [29] Ho [30] Er [31] Tm [32] Yb [33] Lu	[19] La [20] Ce [21] Pr [22] Nd [23] Sm [24] Eu [25] Gd [26] Tb [27] Dy [28] Ho [29] Er [30] Tm [31] Yb [32] Lu	[18] La [19] Ce [20] Pr [21] Nd [22] Sm [23] Eu [24] Gd [25] Tb [26] Dy [27] Ho [28] Er [29] Tm [30] Yb [31] Lu	[17] La [18] Ce [19] Pr [20] Nd [21] Sm [22] Eu [23] Gd [24] Tb [25] Dy [26] Ho [27] Er [28] Tm [29] Yb [30] Lu	[16] La [17] Ce [18] Pr [19] Nd [20] Sm [21] Eu [22] Gd [23] Tb [24] Dy [25] Ho [26] Er [27] Tm [28] Yb [29] Lu	[15] La [16] Ce [17] Pr [18] Nd [19] Sm [20] Eu [21] Gd [22] Tb [23] Dy [24] Ho [25] Er [26] Tm [27] Yb [28] Lu	[14] La [15] Ce [16] Pr [17] Nd [18] Sm [19] Eu [20] Gd [21] Tb [22] Dy [23] Ho [24] Er [25] Tm [26] Yb [27] Lu	[13] La [14] Ce [15] Pr [16] Nd [17] Sm [18] Eu [19] Gd [20] Tb [21] Dy [22] Ho [23] Er [24] Tm [25] Yb [26] Lu	[12] La [13] Ce [14] Pr [15] Nd [16] Sm [17] Eu [18] Gd [19] Tb [20] Dy [21] Ho [22] Er [23] Tm [24] Yb [25] Lu	[11] La [12] Ce [13] Pr [14] Nd [15] Sm [16] Eu [17] Gd [18] Tb [19] Dy [20] Ho [21] Er [22] Tm [23] Yb [24] Lu	[10] La [11] Ce [12] Pr [13] Nd [14] Sm [15] Eu [16] Gd [17] Tb [18] Dy [19] Ho [20] Er [21] Tm [22] Yb [23] Lu	[9] La [10] Ce [11] Pr [12] Nd [13] Sm [14] Eu [15] Gd [16] Tb [17] Dy [18] Ho [19] Er [20] Tm [21] Yb [22] Lu	[8] La [9] Ce [10] Pr [11] Nd [12] Sm [13] Eu [14] Gd [15] Tb [16] Dy [17] Ho [18] Er [19] Tm [20] Yb [21] Lu	[7] La [8] Ce [9] Pr [10] Nd [11] Sm [12] Eu [13] Gd [14] Tb [15] Dy [16] Ho [17] Er [18] Tm [19] Yb [20] Lu	[6] La [7] Ce [8] Pr [9] Nd [10] Sm [11] Eu [12] Gd [13] Tb [14] Dy [15] Ho [16] Er [17] Tm [18] Yb [19] Lu	[5] La [6] Ce [7] Pr [8] Nd [9] Sm [10] Eu [11] Gd [12] Tb [13] Dy [14] Ho [15] Er [16] Tm [17] Yb [18] Lu	[4] La [5] Ce [6] Pr [7] Nd [8] Sm [9] Eu [10] Gd [11] Tb [12] Dy [13] Ho [14] Er [15] Tm [16] Yb [17] Lu	[3] La [4] Ce [5] Pr [6] Nd [7] Sm [8] Eu [9] Gd [10] Tb [11] Dy [12] Ho [13] Er [14] Tm [15] Yb [16] Lu	[2] La [3] Ce [4] Pr [5] Nd [6] Sm [7] Eu [8] Gd [9] Tb [10] Dy [11] Ho [12] Er [13] Tm [14] Yb [15] Lu	[1] La [2] Ce [3] Pr [4] Nd [5] Sm [6] Eu [7] Gd [8] Tb [9] Dy [10] Ho [11] Er [12] Tm [13] Yb [14] Lu	

## Stars Typology:



## Snowflakes



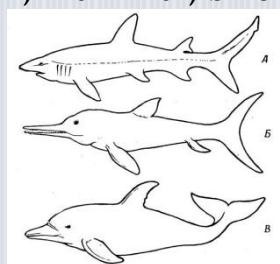
### Typology:

## Typology of animals:

Marsupials  
in Australia

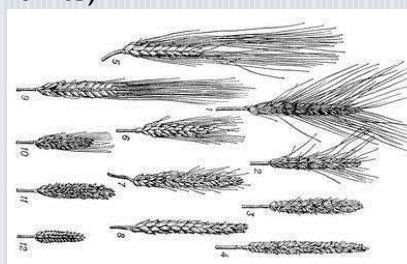


Convergent form of  
fish, mammal, birds..

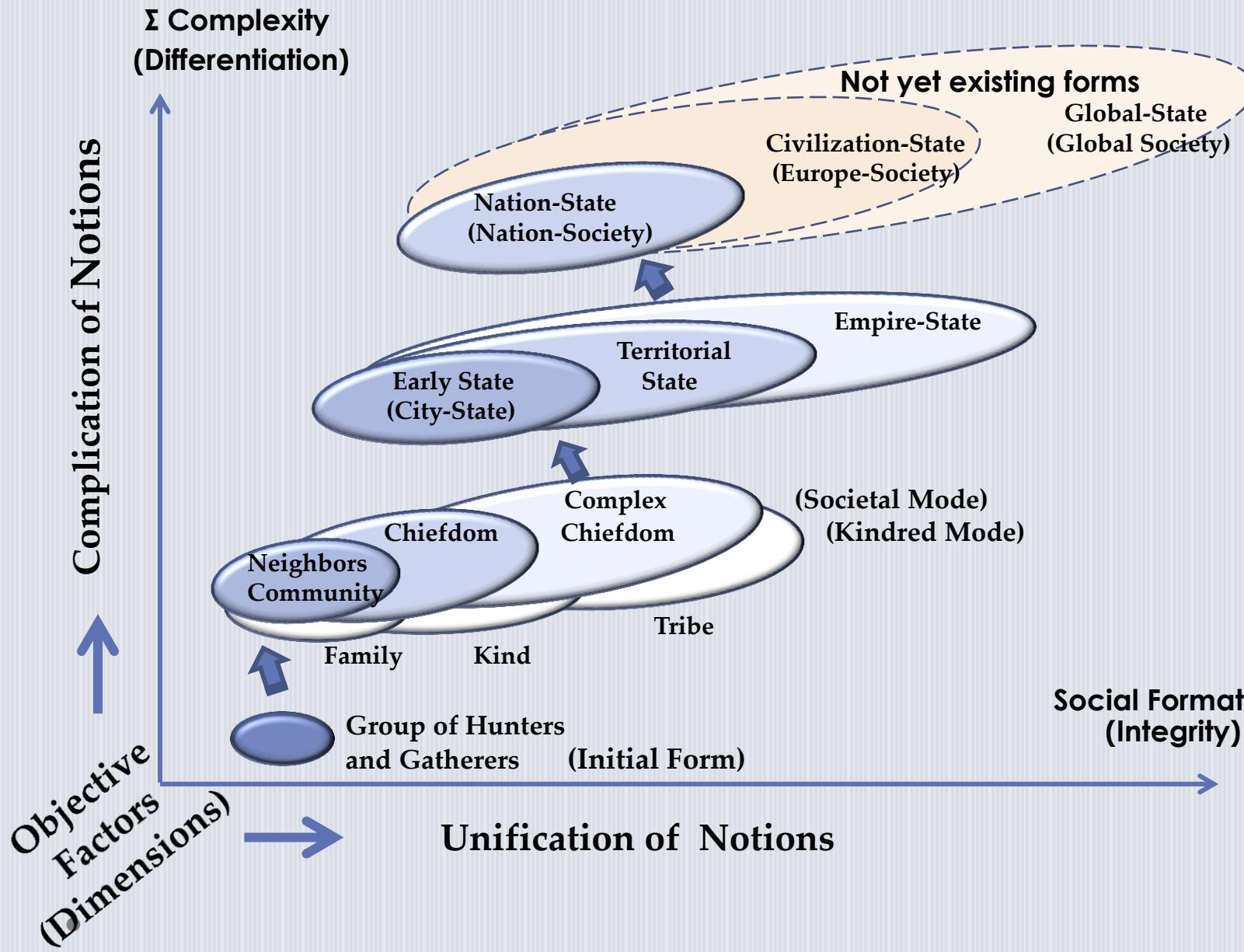


## Homologous series of:

- Organic compounds –  $C_nH_{2n+2}$
- Plants, ...

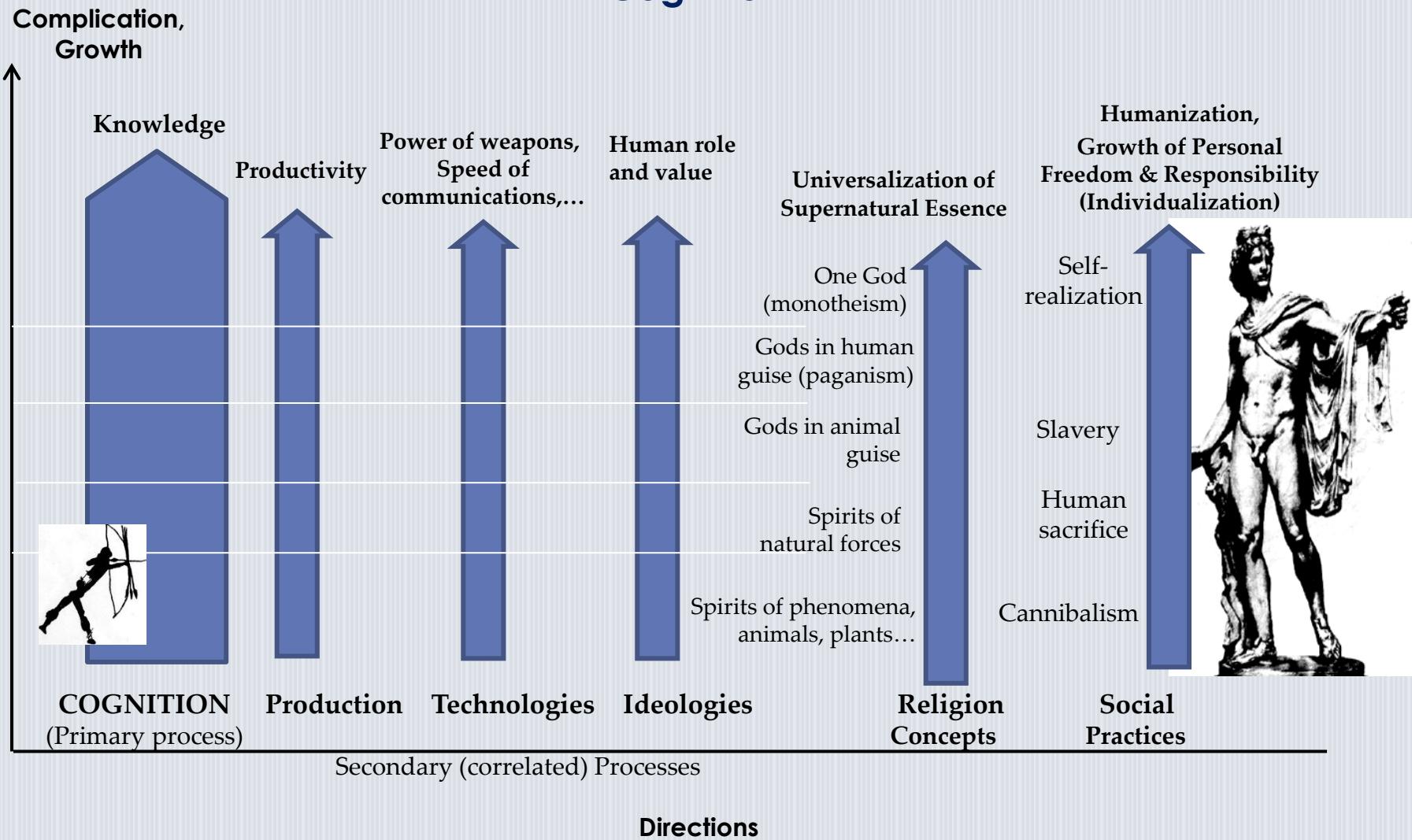


## Typology of Social Forms



**Steps are subjective, complexity levels are objective**

# Correlation of Evolutional Directions with Cognition

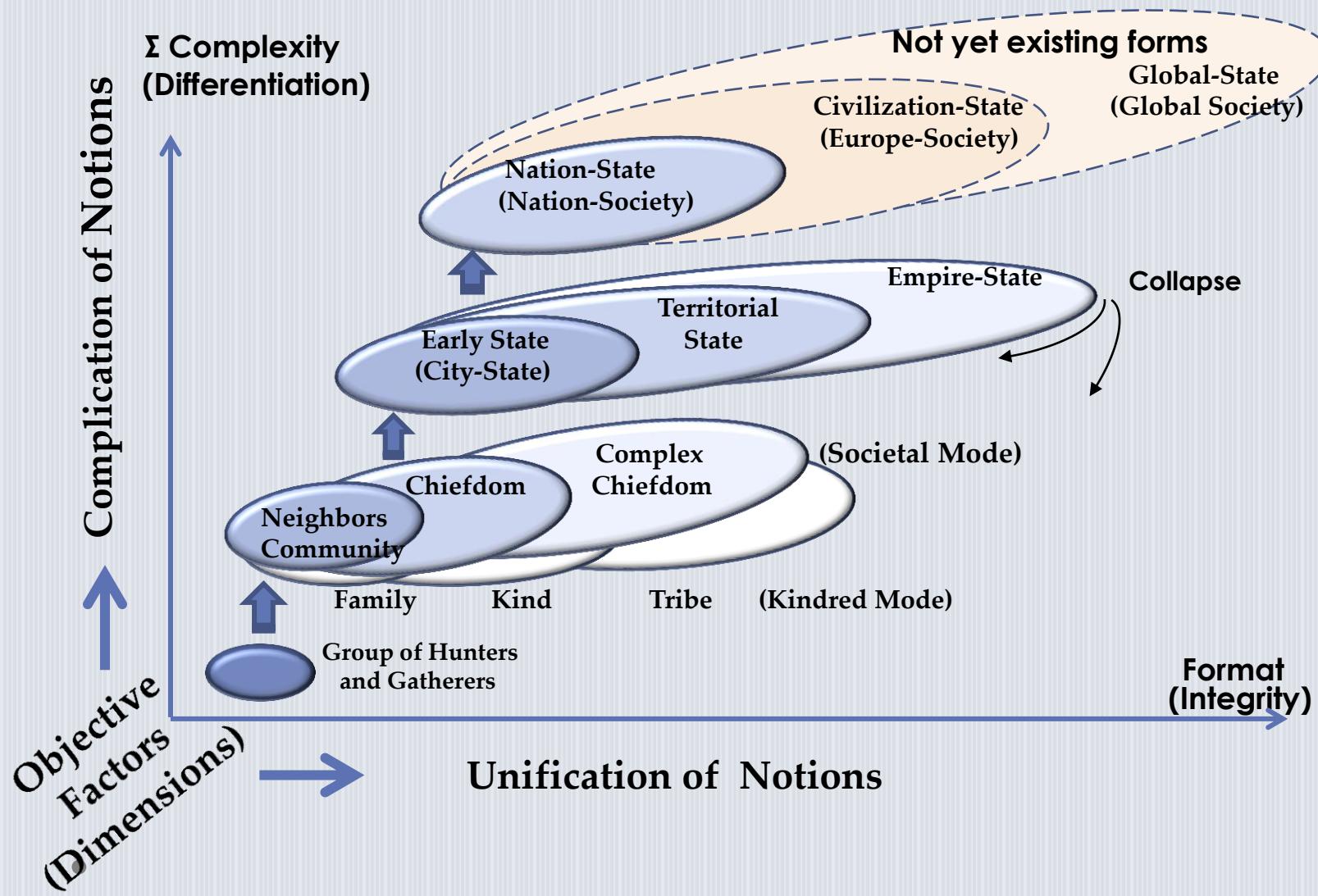


# Evolution Levels (Platforms)

Parameters Platforms	Knowledge Complexity	Level of Technology	Religion	Role of Man in Nature	Role of Man in Society	Max Size of Society	Examples
<b>Modernity</b>	Abstract cognition of non-sensible essences	Scientific Technologies	Scientific theism	Human being is the top and goal of Nature	Absolutization of individual Freedom, Rights, Self-realization	Global State	Europe, ? Global ? Society
<b>Antiquity "Axial Age"</b>	Abstract theories, Appearance of science	Iron Technologies	One God (Monotheism)	Man is the master of Nature. God is the creator.	Civil Society in Poleis, Civil rights	Empire	Athens, Rome, China
<b>Secondary Civilizations</b>	Abstract notions in math, astronomy, buildings	Bronze Technologies	Gods in human guise (Paganism)	Power over natural forces. Invasion on gods' field . (Heroes mythology)	Rigid structure of social strata. Protection of rights, property within strata	Territorial State	Persia, Assyria, Babylon
<b>First Civilizations</b>	Abstract notions in counting, writing ...	Irrigation. Early Bronze	Gods in animal guise	Power over metal, river ...	State emergence, strengthening of social structure	City-State	Sumer, Egypt
<b>Neolith Settlements</b>	Practical knowledge in selection, ceramic production	Domestication of animals, plots Materials production	Spirits of natural forces	Power over domesticated and known Nature	Personal property, some freedom within Neighbors community	Chiefdom, Complex Chiefdom	Natufia, Jericho
<b>Mesolith Groups</b>	Practical knowledge	Stone tools production	Spirits of objects, animals, events...	Full dependence. Mystification of everything	Group consciousness, full dependence upon group	Bands	

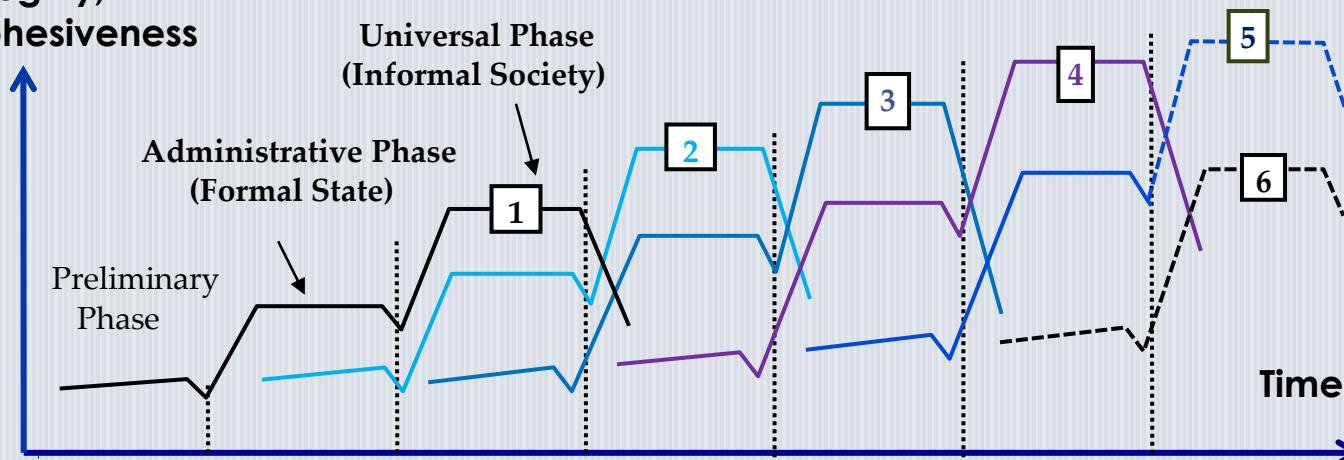
# Social Forms Typology

Communication → Unification → Group Solidarity



## Cycles of state-society's genesis

Integrity,  
Cohesiveness



1000 B.C.	753 B.C.	509 B.C.	287 B.C.	27 B.C.	235 A.D.	476 A.D.	<u>Rome</u>
500	750	1000	1250	1500	1750	2000	<u>Europe</u>
650	882	1136	380	1612	1917	-	<u>Russia</u>

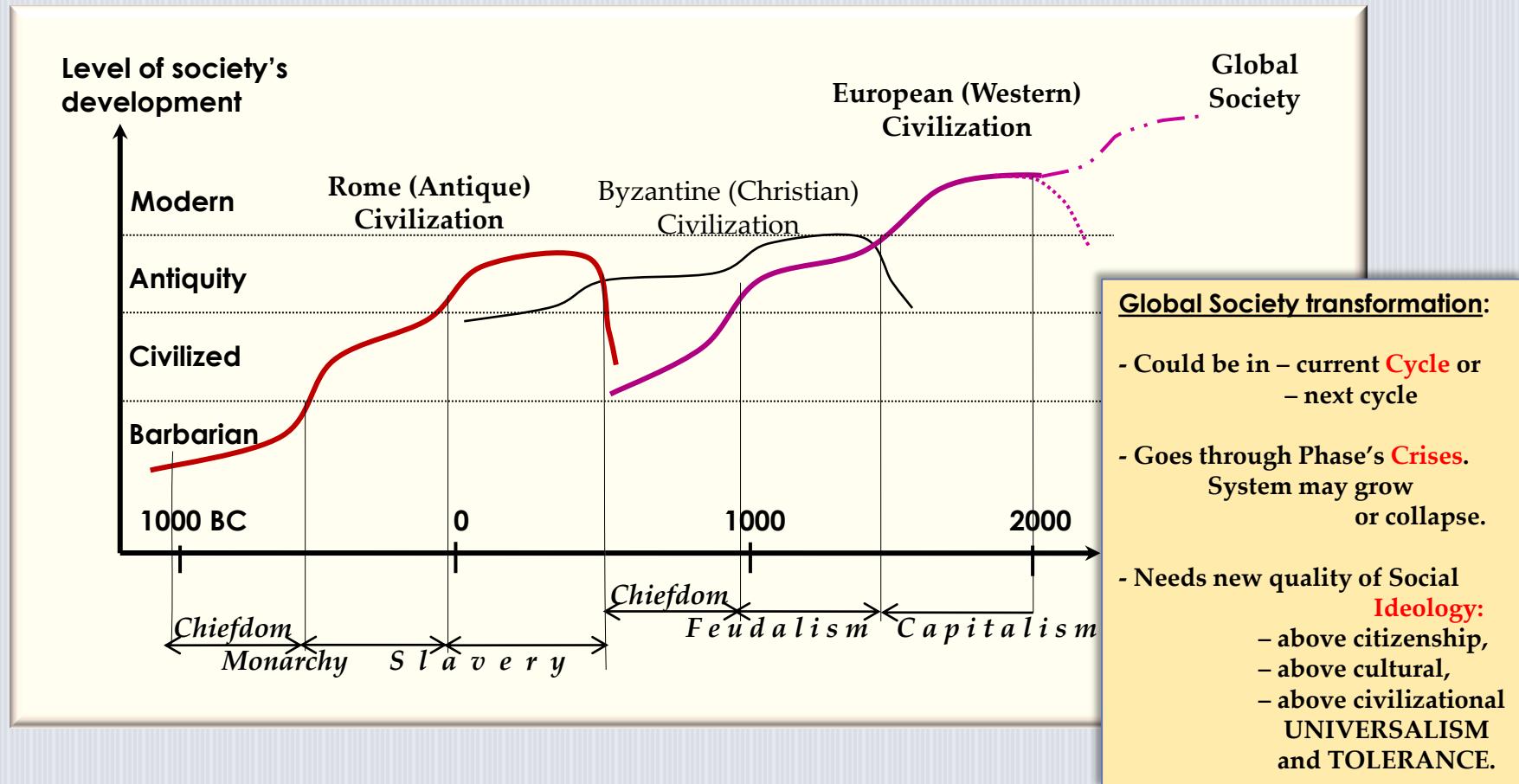
**Rome Societies:** 1 – Town community; 2 – Rome polis – Latium; 3 – Italic nation;  
4 – Rome civilization; 5 – Inter-civilization community.

**European Societies:** 1 – Manors and town communities; 2 – Duchies, Principalities and City states;  
3 – Mono-ethnic nations; 4 – Multi-ethnic nations; 5 – European civilization; 6 – Global Society.

**Russian Societies:** 1 – городские общины; 2 – удельные княжества; 3 – великорусская нация;  
4 – российская нация; 5 – российская (евразийская) цивилизация.

# Life Cycles In Social Evolution

## Жизненные циклы в социальной эволюции



Iron Technologies



Scientific Technologies



**Thank you**

Добролюбов Сергей Васильевич  
Sergey V. Dobrolyubov  
[dobrolyubovsv@mail.ru](mailto:dobrolyubovsv@mail.ru)