

III A Man

To describe man,
You do not study
His world, but his mind,
The organ, generating
Cause setting forces.

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III A 1 Remarks

1a) Initiation

Man, as individual or small group, exists out of components and not as a single, defined, finished object. As artisan of his work he initiates out of intentions and conceptions an expression as a cause setting and mostly retraceable force and has generated for himself a domineering man made environment, for which he signs responsible, not society at large.

1a1) His natural constitution consists out of physical growth, drives and needs, psychic activities, emotions, motivations and mental activities.

1a2) His man made spiritual, social, physical and natural environments are constructed out of subject true and object true treatment.

1a3) Results are mental-human-natural products, essential being a physiological base, freedom, development and conviction.

1a4) Intent of the essay is to give a succinct description and evaluation of man.

1a5) Observer's position is reflective, defensive, hopeful, literary participation.

1a6) Definition of truth for the essay is: Have all components been considered?

1b) Self-preservation

The human intellect has developed out of evolutionary forces over geological time spans with a universal genetic code, genetic variability, multicellular organisms with specialization of functions, forming out a multifarious plant and animal life. The human mind is tied to life in cosmic time and location, planetary and local environmental conditions and physiological functionality. The physical, chemical and biological dependencies and capabilities render support of its base a precondition of the human mind. The foundations of life yield self-preservation, foresight and the values of human dignity, truth and unity of mankind with the tasks to serve and amend.

1c) Emancipation

1c1) Man is centered in his convictions, delineating his intentions, conceptions, mental operations and responsibilities, means, results in relation to himself, society, nature and the infinite.

1c2) They aim in telos of mind at moral utopia, ethical awareness in natural-social life. Through enlightenment of public comprehension, man is able to discern, describe, evaluate his conditions and endeavors to act with self-determination, -preservation, -interpretation and -realizations for cosmic survival and a future for man.

1c3) Human growth towards a defined object 'man' remains a self-contradiction.

III A 2 Standards

2a) Human dignity

The foundations of life, physical, chemical, biological dependencies and capabilities, demanding self-preservation and foresight, are guided by respect for the integrities of nature and life.

Man adopts for free self-interpretation as self-set defining, comparing value and standard: human dignity, being universal, invariable, inalienable, codifiable, falsifiable and livable.

2b) Values

Values give a direction to the course of action, not to fall back on themselves.

They aim at the betterment of man and his race with objective, predictable, common benefits.

They apply to all objects moldable by human communication and action in freedom of choice with positive or negative consequences.

Scaled up intent is to expand sound theology's, maturity's, reason's and ethic's freedoms.

2b1) Universal values apply to the past, present and predictable future on a global, historical scale.

They apply to all people as a common base, irrespective of origin, race, culture, age or gender.

There are no political, regional or discipline specific values, which cannot be deduced from the dignity of man, being otherwise fractional, partisan or dominating an universal one.

2b2) Value scale

Values are ordered hierarchically according to significance and range of validity.

They are connected by an unbroken interlinked tree structure.

First values guard basic existentials of life. Lower order ones become increasingly item specific.

2b3) Primary universal values

b3,1) Primary universal spiritual value is love, being kind, patient and protecting. It abhors violence. It extends to the low (Mat 25,40), lost (Luk 15,4) and hostile (Mat 5,43).

b3,2) Primary universal human value is dignity, extending equally to all, disregarding origin, color, gender, age, position, culture and faith.

b3,3) Primary universal natural value is integrity of nature.

2b4) Secondary universal value

Secondary universal spiritual, human and natural value is truth. It abhors deception.

It extends to all objects as far as self-awareness, curiosity, imagination and ambition do.

b4,1) Truth is found by cognition, first by an intruding, observing, questioning, investigating search, exhausting available means to generate knowledge.

b4,2) Truth in its narrow content means congruence of a description with its object in one to one accuracy from property to term to sign to communication.

b4,3) Truth in its wider content means an accurate, complete, transparent description of an object as objective knowledge in balanced dimensions of God, nature and man.

b4,4) Investigating an object, truth is in respect to God a comprehensive analysis towards innocence, in respect to man and nature a comprehensive analysis in spirit of man and in integrity of nature.

Their research adding each other, they stand on a linked, equal, balanced and cooperating level.

2b5) Tertiary value

Tertiary and primary value for society is unity of mankind. It abhors segregation.

As existential value it is based on equity and justice with the rule of law.

2b6) Forth and humanitarian values are freedoms, emancipation and common welfare.

2b7) Professional standards are guidelines of state of the art field knowledge and performance.

2b8) Item specific standards are bench marks of item specific properties.

2c) Promotion

Values are always in conflict with 'statesmanship', regarding power tools as the only reality creating, molding, controlling and securing means of an historic achievement. They are promoted in

2c1) Public, in languages of His Word, spirit of man and integrity of nature, in the humanities the first form being poetry, in the natural sciences being mathematics.

2c2) Humility, intending to serve, to conciliate and to amend.

2c3) Esprit to publicize, explain, enlighten and to wake hope over darkness.

2c4) Fearlessness against corruption, which represents most objects as the opposite to facts.

III A 3 Constitution

An originator can be a natural, legal or virtual person.

A natural originator's needs and drives build up to psychic activities and motivations and evolve by mental processing into a conscious intent, a decision and a pre-planned, defined design of expression.

They initiate at any starting point from lower instincts to higher hopes and proceed in any direction, variation, modus and intensity. Beaming with life as well as being vulnerable, they grow and decline, reach out to all objects of imagination and drive on with zeal inexhaustible to excess. Demanding ever new stimulation, satisfaction and expansion, they transgress with administrative-technical tools, deception and violence the boundaries of man and his environments. They do not rest until self-destruction.

Growth of physical-psychic-mental capabilities depends on an array of intervening epigenetic and acquired, phase specific and continuous, unconscious and conscious factors in a process of life long self-society-nature-God interacting self-realization.

3a) Physical growth proceeds out of evolution determined traits of geno- and phenotype, onto- and phylogenetic factors together with nutrition, exercise, environmental conditioning and selection to form out morphology, anatomy and physiology over a life cycle of six stages from zygote to embryo, infant, youth, adult to death and a sex cycle of three stages from germ cell to karyogamy to mature sex organ.

3b) Needs and drives

Needs and drives are various internal stimuli and external incentives to form a motivation towards action. They desire a state of wellbeing and achievement and organize themselves into a hierarchy.

3b1) Spiritual needs and drives address all phenomena

3b1,1) Faith is given by God and accepted with a set of religious statements.

3b1,2) Man is centered in his convictions, a concept of life in self-determination.

3b1,3) Values define a common benefit for a specific object.

3b2) Mental needs and drives thrive with eg curiosity, variation, experiment and result, seeking eg

3b2,1) Free mental-physical movement and control.

3b2,2) Information, experience, knowledge and know-how.

3b2,3) Identity, independence, self-determination, -reliance, -realization and -presentation.

3b2,4) Improvements of existential, social and environmental conditions, first in putting off death, alleviation of diseases and reduction of restrictions, contingencies and energy requirements.

3b2,5) Reduction of complexities to simplicity, transparency, accessibility and functionality.

3b3) Social needs and drives thrive with eg communication and socialization, seeking eg

3b3,1) Immediate social environment in a small group with common language.

3b3,2) Reproduction of the immediate surroundings, social group and species.

3b3,3) Social identity with name, self-esteem and -respect.

3b3,4) Collective identity with chosen association, participation, culture and norms.

3b3,5) Production of social structures, order, coordination and organic growth.

3b4) Emotional needs and drives comprise eg feeling, mood, sentiment and passion.

3b5) Biological needs and drives thrive with eg resources and consumption, seeking eg

3b5,1) As absolute necessities existence, self-preservation and provisions for the near future.

3b5,2) Indispensable privacy, rest and recreation.

3b5,3) Urgent protection against natural and human threats.

3b5,4) Required physical maintenance and excitement of life's basic actions.

3b5,5) Livelihood above marginality with youth, well-being, ease and comfort.

3b5,6) Self-development of biological, emotional, psychic, mental and spiritual capacities.

3b6) Lower instincts mostly lead to self-usurious archaic desires for

3b6,1) Prestige, seeking eg excessive recognition, preferential treatment and glamour.

3b6,2) Power, seeking eg excessive means, control, dominance and penetration of all facets of life.

3b6,3) Possessions, seeking eg security, control, increase, diversity and demonstration.

3b6,4) Pleasure at the expense of others, seeking eg gloat up to sadistic delight.

3c) Psychic activities

An inner, assembled self-identification co-determines psychic processes on the intermediate level between sensations in the subconsciousness and physical-mental-spiritual activities in consciousness.

3c1) It takes up internal-external stimulations about any individual or collective object of any class from the entire neuronal network for inner inspective turn over as well as subconscious needs and drives to bundle them into conscious motivations and intentions.

3c2) It develops by repetitive reaction-action-stand by-relaxation into a readily accessible operational resource with adaptable structures and mechanisms.

3c3) It can show itself as flair, temperament, inclination, attitude and behaviour pattern.

3d) Emotions

Emotions as atmosphere of being constitute a distinct un- and conscious psychic activity.

They accompany, anticipating to trailing, synerg- to antagonistically, human motivations and activities.

They are controllable, trainable, manipulable and vary in intensity and perceptivity.

They generate physical feelings, psychic passions and spiritual compassions.

3d1) Physical feelings arise with basic individual and collective needs as basic emotions like elation, happiness, sadness and anger, appraising the situation and inducing attraction or rejection

3d2) Passions arise with individual and collective psychic, social and mental needs, expressing themselves as self-esteem, mood, affection, longing, ambition and risk taking, appraising the political-social-natural environment and inducing interest, withdrawal or counter-action.

3d3) Compassions arise with individual and collective spiritual drives towards self-emancipation and overall comprehension with a responsibility to realize by means of enlightenment a common benefit.

3e) Motivations

Motivations are volitions, psychic forces, at the point of decision, ready for implementation.

They draw on needs, drives, endogenic dispositions like psychic, mental, spiritual impulses and exogenic conditions like opportunities, en-discouragements, obstacles to generate innumerable desirables.

3e1) They organizing and reorganizing themselves in flux, continuing, concentrating, combining, expanding, eclipsing, substituting, separating, reflecting, correcting and diminishing.

3e2) They gain foresight with experience and knowledge to specify the objective of goal attainment, list required material and human resources and lay out strategical-tactical operations to plan ahead realistically over distances, times and eventualities.

3e3) They are satisfied for a short period only to slacken, rest, revive and re-enforce themselves.

3e4) They are without reflection often sub-level, aberrating and over-extending to self-destruction.

3f) Mental Activities

The mind is the decision making organ of physical, psychic, mental and spiritual activities with needs, drives, motivations and goals, responsible for all man made phenomena.

3f1) Mental growth, predetermined by evolutionary forces, forms out the functions of the autonomic, sensorimotoric enteral, peripheral and central nervous systems. More than 10^{10} nerve cells, a neuronal network of bio-electro-chemical information generators, transformers, transmitters, processors, receivers and storage units, channel in- and external neurological signals towards the desired result.

Objects are represented in consciousness by a model and corresponding term for operations as neuronal firing patterns for sequential and parallel processing.

3f2) Mental capability and productivity change over a life cycle, in environments, with re- and acquired training, experience, knowledge and ways of thought.

f2,1) Inner processing products for subject true treatment are cognition, intention, conception, memory, mental operations, reflection, combined intention-conception and a design of expression.

f2,2) Outer processing products for object true treatment are cognition of the object, approach by its class and realization by communication and action towards the desired result.

3f3) Mental activities generate new capabilities beyond animalistic instincts. Innate anthropological behavior patterns are replaced by emancipation and conviction based behavior patterns.

f3,1) They enable universal treatment of objects of any class by questioning and evaluation, cognition and knowledge, reasoning and contemplation, realization and application.

f3,2) They expand basic freedoms and those of truth and ethics.

f3,3) They expand human physical, mental and spiritual boundaries.

III A 4 Construction

4a) Subject true treatment

Subject true treatment centers on designing of an object according to subject related criteria.

It employs mental processing products, inner, conscious, organized constructions, as mental tools to generate, focus, coordinate and apply a biotic medium of comprehension to an objectively placed item.

It entails cognition of oneself and the object, intention, conception, memory, mental operations, reflection and a design of expression. Productivity is gained by sound principles and praxis in all steps.

As artificial constructions, they are chosen to be close to human physiology and objective reality.

Evaluation is by adequacy, productivity, dynamics, balance, cohesion, merit and restraint of individuality.

Preforms remain on the stage of eg infantilism, primitivism, naivety, cliché, impulse and blind imitation.

Basic cultural prerequisites are cognition, language, mathematics, logic, method and data processing.

α) Language (Paragraph 5b2) Communication)

β) Mathematics are the study of quantity, structures and their changes. By counting, measurement, calculation and deductions from a set of appropriately chosen axioms and definitions, it arrives at qualitative-quantitative descriptions and predictions of forces, appearance and behavior of objects.

γ) Logic is accountability of identity. It derives from two basis statements through material and formal reasoning along a relationship and a standard of comparison a follow up statement, a conclusion.

δ) Methods are standardized steps to perform routine tasks of observation, investigation, description, interpretation and evaluation of an object, - short of an in depth inquiry.

ε) Electronic data processing in multi media, in worldwide networks with microprocessors programmed in the digital code, assists in all computational and communicative tasks of mental activities.

4a1) Cognition (Essay 0 Cognition)

Access to all objects is by cognition, transferring forms of being into forms of consciousness.

Desired result is to shed light on an object, to render a representative description and to investigate further for a more complete description.

Starting from questions and searches, it proceeds along the factors of the object, relation and subject.

a1,1) Objective factors are focus, observation, denotation, description, deliberation, interpretation, evaluation, documentation, propositional support, publication, public discussion, problem solving, conflict solving and development.

a1,2) Relation criteria are relations, information, transmission and medium.

a1,3) Subjective factors are onto- and phylogenetic development, the senses, emotions, mental capabilities, experience, way of life, self-understanding, historical factors, schools of thought, present day trends, institutional factors, codetermining factors, inhibiting factors and ethics.

4a2) Intention

Intention is the cause setting force of actions, refusing to be penetrated by other chains of causality.

Deliberate goal can be any object of any class.

a2,1) It filters and orders internal stimuli from physiological, psychic, mental and spiritual activities.

a2,2) It directs impulses to external activities in gestures, communication and actions.

a2,3) It stores in memory observed, studied and experienced models of behavior for reference.

a2,4) It shares and hides needs, drives, motivations, intentions, emotions, activities and events.

a2,5) Co-determining factors are cognition, available means, subjective evaluation, objective norms, habits, confidence, worldview, conviction, environmental and inhibiting factors.

a2,6) It fuses all internal, external and codetermining factors into a single chain of intention.

a2,7) It promotes its personal goals as well as cooperates in collective endeavors.

a2,8) Every step is subject to simulation, evaluation, reflection and redirection.

a2,9) It achieves goal attainment out of needs and drives along a workable internal design of expression and external course of implementation.

a2,10) Goals range from charity to power madness and resources from self-restraint to violence.

a2,11) Acid tests move the sequence backwards to infer from indicators, behavior, context, experience and reason the intentions, conceptions and potential future actions in another person's mind.

4a3) Conception

Conception constructs an image of an object as its mental representation in consciousness.

Consciousness is neuronal bio-chemo--electro-magnetic sensory awareness of a short term focused item and a long term present background screen, serving as a workbench for mental processing.

a3,1) It draws items of any class for visualization out of the senses by cognition, out of knowledge by recall from memory, out of phantasy by creativity and out of relooping by reflection.

Visualizations as image, map or symbol range from a void to the limits of imagination.

In focus adjusted are distance and perspective to close up on details, structures, processes, interactions, formalities, context, frame, environment and gaps.

a3,2) It endows the image with meaning, its forces, characteristics and relations.

a3,3) It attaches to the image a term with a phonetic signal and a written sign.

a3,4) It stands with specified and identified content at the center of mental processing.

a3,5) All steps of mental processing are driven by an intentional chain from attention to desired result.

a3,6) Standards are those of cognition and truth.

Improved representations are gained by further approximations and more accurate technical devices.

a3,7) Desired result is knowledge within a mental horizon, a public, representative, unprejudiced collection of facts from verifiable sources. As palpable background knowledge it represents the present state of affairs, world view and their historic record.

4a4) Memory

Memory stores information for reproduction and on recall reproduces it instantly in consciousness.

Information of any class in varying volumes and levels of intensity is

a4,1) Collected from visualization out of cognition, creativity and reflection.

a4,2) Filtered according to relevance, context, environment, source and convenience.

a4,3) Consolidated by addition, change and cut out. Changes can be simplification and fabulation.

a4,4) Encoded and stored over time in an ultra-short sensory, short working and long time memory.

Held with it can be explicit meaning, situation, episode, context, extraordinary event, autobiography, implicit procedures and prospective intent.

a4,5) Decoded and retrieved on call for attention, cognition, recognition, orientation and further mental processing like training, learning, re-interpretation and re-evaluation.

a4,6) Aroused in sub-consciousness by association and trauma.

a4,7) Lost by fading, forgetting, dislocation, repression, interference, amnesia and brain damage.

a4,8) Memory is evaluated by its capacity, accuracy, reaction time and conditioning.

4a5) Mental operations

A mental operation fixes an item in concentrated attention for deliberate processing.

A neuronal network with complete interlinkage allows free arrangement of items.

Prerequisites are an outline of the author's position, frame of operation, goal and the standards of truth.

a5,1) Basic co-processed images are semantic content, linguistic term and often semiotic symbol.

a5,2) Basic processing steps are addition, combination and deletion of items.

a5,3) Basic mechanisms are association of items, comparison and conclusion.

a5,4) Complex tasks utilize from start to conclusion task mapping frames of operation, to be worked off by free and algorithmic operations.

a5,4,1) A task contains available information of the items and searched for conclusion.

a5,4,2) A mapping frame arranges an inner order of operations with a flow chart and lists of the items' properties, assumptions, required form and accuracy.

a5,4,3) The inner order matches by rules of logic purpose and result, place and time, quality and quantity, cause and effect, reality and hypothesis, level of composition, abstraction and style.

a5,4,4) A conclusion is combined with an intention and conception to be inserted as a composite unit into the design of expression.

a5,5) Frames of operation can be expanded to handle complex, longer, more detailed and interconnected causal chains of objects' characteristic and relation as they will grow with future R&D efforts.

4a6) Reflection

Reflection distrusts a thought, emotion or expression.

a6,1) Perspective is from a point set back, cut off from environmental factors for an unprejudiced scan of a point in question to gain more accuracy, objectivity, creativity, reliability, scope or balance.

a6,2) Tools of cognition are reapplied, retrieving the steps of mental processing, retracing the phases of implementation or searching for additional or disregarded factors.

a6,3) Desired result is a more comprehensive description and evaluation of an object without running into a dead end of self-crucifying contemplation.

4a7) Design of expression

A design of expression fuses a line of mental processing with a line of mental-physical implementation.

They combine for productivity internal subject true and external object true treatment.

a7,1) The line of processing comprises a complete chain from intention to conception to mental operation to a mental draft of the envisioned object.

Sequenced are bundled composite one-intention-conception-operation units as paragraph or topic.

a7,2) The line of implementation comprises a complete chain from decision to communication to action to a mental draft of the realized object.

Sequenced are bundled one-force-resource-action-units as management factor or objective.

a7,3) They are often run and rerun to improve points of reflection.

a7,4) Desired result is a functional and aesthetic mental-human-natural product with merit.

a7,5) Universal processing handles objects of any class and category with their forces and properties on all levels of reality, abstraction and complexity.

a7,6) Evaluation is by standards of truth, merit, aesthetics and performance yardsticks like intelligence.

4b) Object true treatment

Object true treatment centers on molding of the object according to object related criteria. It entails cognition of the object, approach by its class and realization according to the desired result. Productivity is gained by sound principles and praxis in all three steps.

It crosses subject-object relations over the range of non-expression, expression and expression roll back.

4b1) Cognition deciphers an item with its properties to make it palpable for mental-physical handling.

4b2) All items can be placed into one of three classes or templates of in-common properties for type like approach and handling, though all items show at least one aspect of all three.

They can be further placed into sub-templates as categories with major aspects.

They delineate class boundaries, not to be transgressed without faulty results, failures and conflicts.

b2,1) Spiritual objects

Spiritual objects are grasped in faith and sound theology. Its categories, rejecting violence, are

- Determination of the Will of God.
- Address of major issues.

b2,2) Natural objects

Natural objects are explained in reason. Its categories, rejecting contradiction, are:

- Quantity by unity, multitude and all.
- Quality by reality, negation and limitation.
- Relation by inherence and subsistence, cause and effect, interrelation between objects.
- Modality by possibility - impossibility, existence - non-existence and necessity - chance.

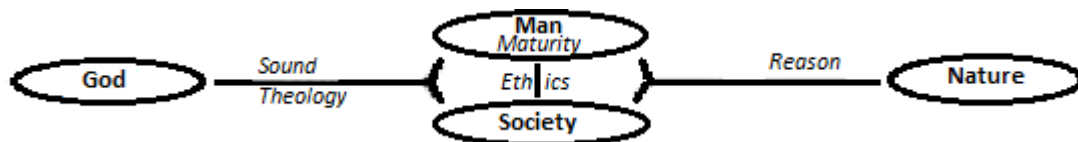
b2,3) Human-social objects

Human-social objects are understood in maturity. Its categories, rejecting omission, are:

- Content and appearance.
- Place and time.
- Presentation in public discussion for decision and realization.
- Medium, situation, context and environments.
- Rooms of movement, capabilities and boundaries.
- Non-knowledge, uncertainties, risks, dangers and possible damages.
- Inhibiting factors.

b2,4) Class boundaries of sound theology, reason and maturity are standards of compatibility.

Sub-class boundary between man and society is ethics.



4b3) Realization

A desired product can be spiritual, natural and human-social in combinations.

b3,1) Spiritual products as speech, text and picture spring out of faith, study and contemplation.

b3,2) Natural objects as physical bodies are molded out of knowledge, material and financial resources with physical-chemical engineering.

b3,3) Human-social products as regulations of inter-human relations are organized and directed out of knowledge, human and financial resources with administrative structures and processes.

b3,4) Evaluation of realization is by merits of the product and its lasting consequences.

4b4) Expression

Expression by communication and action is a basic, universal human activity.

An originator's decision out of need, drive, motivation, intention for an expression is the basic human force to realize along a relation a desired result. It has established by construction, restraint and destruction all man made phenomena and is able to advance, sustain or destroy man, society and nature.

Expressions are highly complex in their construction, combinations, chains, ramifications, long term consequences and cannot be calculated in advance in all possible effects or strictly classified. They will always remain the raw mass of daily usages, where its factors are also determined by various conditions and multiple unique circumstances. An expression is first described in its major lines of acting forces

b4,1) Generation

b4,1,1) Preconditions are autonomy of body and mind.

b4,1,2) Training is from childhood on, followed by schooling and study in a professional field.

b4,1,3) A design of expression is generated out of intention, conception and mental operations.

It comprises as 'vector package' all steps from inspiration to result.

b4,1,4) Point of inspiration can lay in real and imaginative past, present or future.

b4,1,5) Force and desired object can be spiritual, natural and human, relative to the originator class internal - self-referential or class external - foreign referential.

b4,1,6) Desires explore possibilities, maximise results, minimize efforts and remove obstacles.

b4,1,7) Responsibilities achieve a qualitative jump by applying a higher standard.

b4,2) Progression

b4,2,1) Preforms remain on a stage of eg attempt, patch, fragment and blank imitation.

b4,2,2) Implementation proceeds along trials, errors, complications, obstacles, set backs, restarts, hurdles taken, changes, ramifications, chances, receptions and reactions to arrive at a result.

Mixed are communication and action with silence, non-action, body language, accompaniment signals, symbols, icons, gestures, laughter, crying, proxemics and environments.

Modi are eg place, time, direction, path, speed, degree, gradient, intensity, vitality and dynamics by eg growing motivations via addition, multiplication, synergism, spill over and spin off.

b4,2,3) Base pattern comprises originator, desired object, communication, action, administrative organization, technical device, relation, medium, recipient, situation, environment and boundaries.

b4,2,4) Base process comprises initiation, progression, reception, reaction and termination.

b4,2,5) Extension over space can cover a point, region, the globe and the cosmos.

b4,2,6) Continuation over time can cover a point, generation, millennium and an astronomical span.

b4,2,7) Augmentation of means is achieved by administrative organizations and technical devices.

b4,2,8) Penetration of complex systems is measured by the scope of impact.

b4,2,9) Changes and deviations occur permanently due to a multitude of varying drives, motivations, intentions, communications and actions. They range from cosmetics to qualitative jump.

b4,2,10) Interruptions by break of an element in a causal chain occur due to eg absence, mal-function, -quality, -supply, -service, -proportion, -linkage, -control, -adaption, -acceptance and accident.

b4,2,11) Interactions range from union to cooperation, coexistence, evasion, competition to conflict.

b4,2,12) Complexity increases exponentially, as the number of possible interactions I in a constellation of n persons P with transmitted properties x at a point in time is: $I = (3 (P_n - 2))^x$ with $(n > 2)$.

b4,3) Results

b4,3,1) Expressions run to first, intermediate, side, lasting effects and far down consequences.

b4,3,2) Lasting results can be classified as mental-human-natural products.

b4,3,3) Unfolding realities are eg physical, physiological, psychic, mental, spiritual and historical, claiming eg existence, necessity, potentiality or possibility to be verified as valid or illusionary.

b4,3,4) Significant local-global - past-future phenomena demand general recognition.

b4,3,5) Limits to physical expression are set by existing and known energy, matter, space and time.

b4,3,6) Limits to mental expression are set by capabilities of imagination, formulation and reception.

b4,3,7) Evaluation of causal lines of forces as traceable indicators of intentions and conceptions is by man's overall responsibilities towards himself, society, nature and God.

4b5) Communication

Communication serves the transmission of information. Language, text and picture stand at center of human praxis as means of conception, interchange, spread of knowledge, socialization and discussion of issues. A message about an object connects a signal with content, its potential-actual sense with faith, understanding, explanation, interpretation and evaluation in context of situation and environments.

Phonetic signals are universal, resourceful, flexible, practical, obstacle safe means to reach through air the acoustic sense, undergoing in flow from originator to recipient several transformations in appearance.

b5,1) Communicator

b5,1,1) Communicator can be eg speaker, singer, author, publisher, editor, agent and moderator.

b5,1,2) Number of speakers range from sole person in monologue to a heterogeneous chorus.

b5,1,3) Collective communication ranges from community press release to mutually shouting down.

b5,1,4) Intention ranges from investigation to description to manipulation to psychic violence.

b5,1,5) Prime intent is to carry information about object O from A by an accurate phonetic term P to B in a fragile neurological-physiological-physical chain of $1:1:1:1:1:1$ representations from O to A's Perception and Conception to P's Expression and Transmission to B's Perception and Conception.

b5,2) Language representation

b5,2,1) Objects of any class can be represented by language, an audible, articulate, meaningful, conventionalized system of sounds with vocabulary, phraseology, pronunciation and grammar.

b5,2,2) Terms are by semantic being eg constative, representative, regulative or expressive, by semantic function eg explicative, expressive, instrumental, moralistic or evaluative.

b5,2,3) Text is out of phonemes, morphemes, lexemes, syntax, pragmatics, semantics, linguistics.

b5,2,4) Paralinguistics are eg sound, volume, intonation, pitch, range, rate and body language.

b5,2,5) Stylistic frames are eg political, professional, social and local.

b5,2,6) Stylistic levels are eg secret code, slang, casual, professional, formal and artistic language.

b5,2,7) Stylistic colours are eg humorous, confidential, dry, antique, insulting and degrading.

b5,2,8) Vitality can be eg natural or artificial, traditional or avant-garde, free or censored.

b5,2,9) Common forms of speech are eg small talk, info, sales pitch, argumentation and instruction.

b5,2,10) Artistic forms are eg short story, novel, epos, poetry, drama, song, chant and opera.

b5,2,11) Forces of creation, usage, change and extinction over generations arise mostly out of adaptive needs and rhetoric of social forces, being described by history of language.

Mass applications are by eg education, advertisement, media rhetoric-propaganda and staged shows with effects on eg standards, usage, educational level, predominant reality and world view.

PC multi-media promotes a clear, pointed, structured style with visual, user friendly navigation.

b5,2,12) 1500 families and more than 3000 languages and dialects exist today worldwide. They are classified as analytically, agglutinating, inflecting and incorporating term building languages.

b5,3) Text representation

b5,3,1) Any articulate sound can be represented by a semiotic sign like a letter in written text.

b5,3,2) The Latin alphabet contains 26 letters with indefinite combinations to handle any complexity.

b5,4) Artefact representation

b5,4,1) Objects of any class can be represented by drawing, picture and sculpture.

b5,4,2) Common and artistic forms are eg sketch, painting, collage, film and architecture.

b5,5) Physical representation by technical devices

b5,5,1) Collection of data by eg scales, sensors, microscope, microphone and scanner.

b5,5,2) Storage of data by eg text, paper, print, tape, slide, video, film, disk and electronic devices on data sheets, in libraries, data banks and information systems.

b5,5,3) Duplication by eg copy, lithography, performance, slide, disk, video, film and electronic copy.

b5,5,4) Processing and evaluation by eg editor, calculator and electronic computer software.

b5,5,5) Search and retrieval by eg indexes, catalogues and search engines.

b5,5,6) Transmission by eg mail, transportation, projection, phone, fax, radio, tv, e-mail and internet. Data flows from eg source to encoder, emitter, channel, receiver, decoder to recipient.

b5,5,7) Mediums of suitable, capable and correct transmission are eg air, vacuum, fiber and cable.

b5,6) Legally it relies on realizable guaranties of free flow of information, freedoms of movement, speech, assembly, religion, the sciences, the press, the arts and profession without censorship.

b5,7) Inhibiting factors are eg technical defect, language barrier, inaccuracy, shift of context, shift of reality, misuse, deception, violence, image fascism with destruction of language as tool of fact finding.

b5,8) Evaluated is communication by merit, exactness, representativeness, consistency, sincerity, necessity, coordination with action, independence and multi-media-artistic concept.

4b6) Action

An action realizes an object by human hand. It constitutes a basic social fact.

It is the causal psychic-physical force to take an effect on a human being or a material object.

A human force is described by its factors of expression and its ensuing reception and reaction.

A physical-chemical force is described by its energy, application and ensuing change of state.

All forms of life interact by information exchange and action, their causal chains propagating along a relation and mechanism within their immediate situation and environments, often undergoing several transformations in appearance. Major forms can be listed as core elements, roles, types and ranges.

b6,1) Acting person

b6,1,1) Acting person by role can be eg private individual, blue or white collar worker, sales person, service person, supervisor, investigator, inspector, regulator, comptroller, negotiator, representative, plenipotentiary, arbitrator, free-lancer, player, coach, inventor, reporter, commentator, adviser, teacher, consultant, contractor, specialist, manager, executive, executioner and owner.

b6,1,2) Number of acting persons in a case ranges from sole person to community of nations.

b6,1,3) Collective action ranges from situational confusion to political-social crusade.

b6,1,4) Prime intent is to mold an object according to intention and conception of the originator.

b6,1,5) Intention ranges from suppression of action to help, construction, maintenance, service, embellishment, regeneration, regulation, manipulation, restriction, destruction to crime.

b6,2) Types

b6,2,1) Typical behavior can be eg role, usage, praxis, tradition, etiquette and life style.

b6,2,2) Non-typical, stigmatized behavior, can be eg drop-out, draft resistance and whistle blowing.

b6,2,3) Uncontrolled mass behavior can be eg mass prejudice, craze, run, riot, flight and panic.

b6,2,4) Common characteristics are eg real or virtual, certain or probable, factual or symbolic, one person or population wide, singular or systematic, particular or universal, short or long term, fast or slow, flexible or rigid, simple or complex, unchallenged or contested, unregulated or regulated, open or hidden, observed or unobserved, visible to the eye or not and non- or for profit.

b6,3) Tools

b6,3,1) Sensual actions comprise perception by the five senses.

b6,3,2) Bio-mechanical actions comprise all physical activities from movement to manual labor.

b6,3,3) Mental actions generate a design of expression for translation into language and action.

b6,3,4) Administrative actions comprise all schreibetisch tasks from documentation to projection.

b6,3,5) Technical action comprises all employments of a device for a specific application.

b6,4) Processes

Processes like all human expressions run along initiation, extension, continuation, augmentation, penetration, changes, interruptions and interactions towards a result.

b6,4,1) Planning proceeds by eg information gathering, modelling, simulation and calculation.

b6,4,2) Decision grows out of eg perspective, goal definition, determination and circumstances.

b6,4,3) Initiation can be eg a first move, final ripening and removal of a barrier.

b6,4,4) Goal orientation pursues strategic-tactical lines, control of factors and feedback evaluation.

Strategies as in all professional fields set down objective, factors of production and frames of action.

Tactics pin point situational, operational actions, counter-actions, tools, modi and circumstances.

b6,4,5) Structure control can be by eg division of labor, networking and hierarchical layering.

b6,4,6) Process control can be by eg scheduling, synchronization and feedback evaluation.

b6,4,7) Event control can be by eg staging, maneuver, ploy and plot.

b6,4,8) Resource control generates eg human soft and professional skills out of the labor market and materials out of fauna, flora, gases, liquids, solids in the natural environment.

b6,4,9) Frame work control, turning oppressive environments into advantageous ones, can be by eg party program, public relation campaign, action committee, lobbying, bribery and compellence.

b6,4,10) Termination can be by eg diffusion, attrition, cessation, abandonment and interference.

b6,5) Legally it relies on realizable guaranties of security, physical inviolability, property, non-discrimination and freedoms of movement, information, profession, access to resources and markets.

b6,6) Inhibiting factors can be eg lack of intent, knowledge, resources, adequate environments, frame works, also restrictive regulations, irrationalities, profiteering, corruption, deception and violence.

b6,7) Evaluated are actions objectively by merit, accountability, necessity, adequacy, performance, cost and subjectively as success with a gain or as failure with a loss.

4b7) Administrative organization

An administrative organization is a N persons configuration, grouping under one head people, information, materials and money as collective driving force with mental, psychological and physical functions. Most motivations seek in expressions support of operational, administrative means. They augment mental-physical capabilities on the meso- and macro-scales, managing human factors of goal attainment. They establish by directive competence a multitude of embedded, autopoiesic systems with regulative impact on heterogenous public to private, open to hidden, soft to forcing circles of relations. They effect regulation, administration, supervision and growth, specialization, diversification, concentration, mobilization, integration, coordination, reorganization and regeneration to perpetuate themselves. They coin political-military-legal-economic-financial-social frame works and common symbolic systems like insignia, status, money and culture.

b7,1) Functions

b7,1,1) The predominant function determines its political-social character, ranging from constitutionality to laissez faire to system theory to social programming to fascism.

b7,1,2) Main intent is to provide an accessible, accountable service to the general public.

b7,1,3) Main conception is a contribution to life while refraining from political excesses.

b7,2) Growth

b7,2,1) Growth forces are those of an originator, social forces and inner dynamics of self-motivation, -formation and -organization, starting from a historically given to hypothetical point and proceeding into various directions. Élan vital induces eg duplication, repetition, formation and addition of base patterns, differentiation, specialization, association, formalization and institutionalization.

b7,2,2) They move as systems of interactive elements step by step, expanding, dominating, adapting and dissolving. Macro structures change as a whole only by collapse or revolution.

b7,3) Appearance

b7,3,1) Appearance is formed by eg identity, self-awareness, function, means, constitution, stratification, radius of activities and public image. The constitution identifies the organizational form, representatives, objectives, structures, processes, means and with it its actual function.

b7,3,2) They act as informal to formal public units of action like eg a forum, market, company, institute, trust, network, party, state, nation and block.

b7,3,3) They show a high traffic density, occupy a point to territory and operate locally to globally.

b7,3,4) Population contact is measured by eg market share, constituency and registered citizens.

b7,4) Structures

b7,4,1) Organized are resources with eg man power, tasks, stations, equipment and supplies.

b7,4,2) Introduced in a meso configuration is one hierarchical vertical-horizontal level and in a macro configuration several hierarchical vertical-horizontal levels, giving the degree of order.

b7,4,3) Tightness ranges from open forum to regulated body to closed system.

Inner freedoms are described by eg culture, creativity, flexibility, vertical-horizontal internal-external mobility and allowance for rooms of privacy, retreat, anonymity, restraint and asylum.

b7,5) Processes

b7,5,1) Organized are resources with eg flows of man power, information, materials and money.

b7,5,2) Introduced are consecutive, task divided steps of action, timely integrating operational functions of eg planning, research, design, testing, decision, implementation, financing, marketing, public relations, events, negotiations, feed back evaluation, corrective action and termination.

b7,5,3) Set up are in- to external, point to broad, regular to privileged channels of communication.

b7,6) Interrelations range from independence to coexistence, competition, conflict to annihilation.

b7,7) Interdependencies exist between resources, markets, systems, constellations and environments.

b7,8) Acceptance depends on private, public, local, regional and foreign evaluation and reaction.

Vital are contributions by the public with eg feedback, counselling, canvassing and volunteering.

b7,9) Public oversight is by eg internal - external, proprietary - public, specific - general, national - international investigative control mechanisms, demanding eg transparency, statement of activities and public forum discussion with corrective action. They are the first to be corrupted by eg profiteering.

b7,10) Excesses lead to eg globally inequitable division of labor and distribution of income.

b7,11) Inhibiting factors are mostly misuses of power by special interest groups, eg instrumentalization, political-social programming of social formations and non-action on pressing problems.

b7,12) Administrative organizations are seen like social forces by their actions and merits.

4b8) Technical device

A technical device is a man made object, utilizing a material, floral, animal or human force against a counterforce for a specific application.

Most motivations seek in expressions support of operational, technical tools. They augment mental-physiological-physical capabilities of human endeavors on the micro-, meso- and macro-scales.

They assist social and technical tasks to execute material factors of goal attainment.

They are a mass motor in the professional fields. Demands for ever new applications foster innovations by scientific-technological research and development and have brought a series of industrial revolutions from the steam engine to electricity to digital data processing to genetic engineering.

They coin human living environments, man made products having supplanted natural surroundings. Increases in performance in power, speed and accuracy accelerate the pace of life and reduce barriers of place, time and mass and the planet to a global, complex, vulnerable, multi-interdependent techno-city.

They extend the radius of action into the micro-macroscopic, over ages and advance the frontiers of the thinkable, calculable, do- and usable. Man has with A-B-C-R weapons the capability to mass murder billions of people up to the extinction of mankind.

b8,1) Forces

b8,1,1) Forces, derived out of the basic strong, weak, electro-magnetic, gravitational ones are nuclear, mechanic, electrical, optical, thermal, chemical, genetic and biological.

b8,1,2) They are generated, amplified, transformed, transmitted, stored and applied.

b8,2) Innovation

b8,2,1) Use of technical devices is limited by free imagination, available forces and mechanisms.

b8,2,2) Resources are scientific knowledge, technical know-how, soft skills and raw materials.

Raw materials can be primary natural or secondary man made, half finished goods.

b8,2,3) Basic steps are study of force and effect, engineering of function, medium and operational mechanism, supply of power, safety precautions, production, test and market introduction.

b8,3) Interaction

b8,3,1) Integration links two machine operations sequentially by administrative arrangement.

b8,3,2) Automation links two machine operations sequentially by a technical control mechanism.

b8,3,3) Joined administrative-technical means allow eg modernization, rationalization, globalization.

b8,4) Appearance

b8,4,1) Appearance can be eg stationary or mobile, hand-held, fixture- or self-supported, mini, medium or large sized, manual-mechanically or -electronically operated.

Digitalization is by multi-media, a combination of technically engineered, display designed, page by page navigable texts, pictures and sounds with resources and task sharing interfaces.

Cyberspace is an artificial, projected 3D panorama, an imagery of objects of all classes, reality duplicating, manipulating and fantasizing, shielded from natural surroundings with real time sensually perceptive and active - electronically receptive and guided interaction.

•Hardware comprises eg central processor, bus, cache, memory, in- and output devices.

•Software comprises eg machine-programming languages, operating system and apps.

•Processing is by digital, binary-boolean signals in semiconductor circuitry.

Miniaturization reduces the size of devices often under visibility of the eye as in eg surveillance.

Micro-chip devices, implanted, embedded, integrated, automated and linked, handle every by discrete numerical methods stable, fast representable, calculable, processable and displayable task.

Nanotechnology allows engineering of materials and machines on the nano-level of 10^{-9} m.

b8,4,2) Present day trends are expansion, differentiation and specialization of professional fields.

Information has become a vital production factor. Growth of knowledge is exponential.

b8,5) Required are standards, regulations, instructions, training, knowledgeable behavior, supervision.

b8,6) Required are impact statements of risks, dangers and misuses for man and environment.

b8,7) Inhibiting factors

They foster illusions of human capabilities, convenience and blindness to fall back effects.

Mass applications lead to a massive burn up rate of resources with environmental damages.

Modern tools of deception, misuses and destruction severely transgress human boundaries. Warfare with high tech weapons of mass destruction is equally self-destructive with global pollution, climatic collapse, devastation of natural land, destruction of build land and eradication of billions of people.

b8,8) Evaluated are technical devices by merit of intent, function, result and further consequences.

Function is seen by professional standards of performance with fixed, operating, environmental costs.

III A 5 Results

5a) Results of expressions by communication and action comprise all longer lasting man made objects. They can be classified as mental, mental-human and mental-human-natural products.

Essential for a durable society are a physiological base, freedom, development and conviction.

Within conceivable alternatives in life, - deficient essential social components lead to misdevelopments.

Within spiritual-natural dimensions human forces and aspirations amount to no more than a scrap.

5a1) Mental products

Mental products as results of neuro-physiological data processing are internal, conscious, intentional, visualized constructions. They are abstract units with identity, name and defined content of properties, independent of realization and utilization. They are conceptual design of most products and can be

a1,1) Mental processing products like a design of expression.

a1,2) Personal mental products like a conviction.

a1,3) Spiritual mental products like an ethical standard.

a1,4) Professional mental products like a mathematical axiom.

a1,5) Auxiliary mental products assisting another product like an operating instruction.

a1,6) Evaluated are mental products by eg truth, merit, sincerity, completeness and consistency.

5a2) Mental-human products

Mental-human products as results of molding human resources are external, conscious, intentional, realized construction. They are concrete units with identity, name, defined content of properties and function. Mass application is by large scale organized human endeavours. They can be

a2,1) Institutionalized administrative units like a government.

a2,2) Associative administrative units like a scientific community.

a2,3) Auxiliary administrative units like a called in expert panel.

a2,4) Evaluated are mental-human products by eg merit, function, performance and transparency.

5a3) Mental-human-natural products

Mental-human-natural products as results of molding natural resources of physical raw materials, flora and fauna are man made material objects. They are concrete units with identity, name, defined content of properties and use. Mass application is by daily population wide consumption. They can be eg

a3,1) Modified natural environment like a dam against the tides.

a3,2) Cultivated natural flora and fauna products like a fruit orchard.

a3,3) Products from non-living raw materials like machinery.

a3,4) Evaluated are mental-human-natural products by eg industrial, technical and practical standards like function, performance, quality, service, cost, recognition, acceptance and natural-social concerns.

5a4) Evaluated are results like human expressions objectively by merit, achievement, contribution to life and subjectively by goal attainment as success or failure.

5b) Physiological base

5b1) The physical cosmos is qualitatively and quantitatively depictable, causally explainable and in its development predictable.

b1,1) Cosmogony describes the earliest physical conditions of the cosmos. From a singularity at a finite point in space-time about 14×10^9 years ago, a state of extreme density of radiation energy, approaching Planck's time h_t , it exploded, cooled and developed into the present geometry.

b1,2) Cosmology

b1,2,1) The macro-cosmos is a coherently gravitation bound, isotropic, homogeneous, accelerating inflationary Riemann geometry with asymptotic Minkowski properties towards infinite. It developed stable groups of galaxies, single galaxies, clusters, nebula, stars and planetary systems.

b1,2,2) The meso-cosmos constitutes the validity range of classical, non-relativistic physics.

b1,2,3) The micro-cosmos enfolds according to the standard model out of 3 classes of elementary particles, point like spin $\frac{1}{2}$ particles, field particles of the 4 forces and Higgs particles, preserving symmetries. It is ruled predominantly by strong, weak and electromagnetic forces, unified in a single theory. It is described by Quantum Mechanics, Quantum Electro-, Chromo- und Flavordynamics.

b1,3) Eschatology describes the future physical conditions of the cosmos for the next 10^{27} years as a continuing, entropy gaining, spatial expansion to leave black dwarfs, neutron stars and black holes.

- 5b2) Forms of life on earth developed out of evolutionary forces and processes.
- b2,1) Biogenesis was first a chemical, abiotic evolution, taking place in the oceans about 3.7×10^9 years ago. Formed were mixtures of amino acids as proteinoid microspheres.
- b2,2) Biological evolution with nucleic acid chains capable of reproduction progressed in self-organization of matter with base pair changes as evolutionary forces. Formed were protobiontes, containing a short DNA strand, which differentiated stepwise an improved metabolism, protein production and a multifunctional membrane. The first prokaryotes of blue algae and bacteria appeared.
- b2,3) Following in the first evolutionary line were eukaryotes with differentiated organelles within the cell and a membrane enclosed nucleus, containing a chromosome set to control cell division by mitosis, the start of phylogenesis. The spreading one cell organisms took up mainly carbon and hydrogen containing molecules in exchange for nitrogen and oxygen to radically change the composition of the atmosphere, starting 2×10^9 years back, into the one we know today.
- b2,4) During the Upper Precambrium of about 9×10^8 years ago the evolutionary rate of the diverse aquatic one cell organisms accelerated, forming multi cellular eukaryotes with specialized cell functions. Evolutionary forces on the level of genotypes became: hybridization, a recombination in sexual reproduction; gene migration; gene drift; genetic correlation; genetic homeo-stasis; on the level of phenotypes in variability of forms and functions: increase; spread; migration; mixture of populations; adaptation to environmental changes and natural selection.
- b2,5) The branches of plants and animals separated about 1×10^8 years back and set up was a heterotrophic food chain with plants at the base, before the first forms of plant life appeared on land.
- 5b3) Environments are long term variables, comprising natural and man made living areas
- b3,1) The Heliosphere, a star of medium size and luminosity, about 4.5×10^9 years old, generating by nuclear fusion electromagnetic radiation, a gravitational and geometrical center of nine orbiting planets, allows a long, stable developmental time span for evolution of organic life.
- b3,2) The Biosphere describes all single factors enclosed by the atmosphere.
- b3,2,1) The atmosphere of the earth, reaching about 10 km upwards, consists out of 78% N_2 , 21% O_2 , 0,03% CO_2 and in its lower layers up to 4% of H_2O_{VAP} . It dampens by circulation temperature and pressure differences, carries precipitation inland and serves as a metabolic fuel.
- b3,2,2) The hydrosphere in forms of gas, ice and liquid, found to 99,7 % in the oceans, supplies with sweet water the largest component of plants and animals and is indispensable in their metabolism.
- b3,2,3) The lithosphere, the outer, firm, plate layered mantle of the earth, reaching about 100 km deep, has as its crust the pedosphere with rocks, stones, sands and soils of various qualities.
- b3,2,4) The biotic environment includes all living organisms in water, land and air.
- b3,3) Ecology describes individual, population and environmental abiotic and biotic forces, requirements and conditions of life with their multifaceted interdependencies in the development over geological time spans. A local ecological environment often forms out a self-organizing, semi-closed system with an energy and metabolic cycle along an ascending food chain in a dynamic, labile balance.
- b3,4) Man causes major, often irreversible environmental changes, substitutions, destructions and climatic shifts through persistent, large scale technological applications with pollution of air, water and soil and eradication of entire biotopes and species.
- 5b4) Boundaries are man's limits of spiritual, mental and physical capabilities.
- b4,1) The distance God - man is infinite, God being the creator of heaven and the earth.
- b4,2) Mental limits
- b4,2,1) Man is born in the original and common state of non-knowledge and over centuries acquired knowledge constitutes only a drop out of an ocean.
- b4,2,2) Limits of free phantasy exceed factual knowledge by leagues. Below limits, inspiration abounds, but rarely approaching extremes or grasping basics comprehensively.
- b4,3) Natural limits
- b4,3,1) Man is extremely vulnerable in his natural environments to dangers, needs and diseases. Traces of natural and synthesized germs, viruses and toxins, not visible to the eye, can be lethal.
- b4,3,2) Limits of action are set by the possibilities of existing energy, matter, space and time. Man can utilize and alter conditions, but he cannot create out of his own new physical forces.
- b4,4) Class boundaries are sound theology towards God, reason towards nature, ethics towards society and maturity towards man himself.
- b4,5) Boundaries cannot be transgressed without recoil of misdevelopments and damages.

5c) Freedom

Freedom, man's ability of movement in human, social, natural and spiritual dimensions is a basic and universal requirement of human activities. Every movement in any environment requires freedom. It is a state for being, encompassing passively absence of intrusion and non-use, actively liberation, use, expansion and also transgression of boundaries, which recoil on themselves.

5c1) Liberation

c1,1) Submission leads to physical enslavement, mental stupor and often extinction.

c1,2) Liberation from political barriers is won by awareness, will, resources and often conflict.

c1,3) Liberation from idolatry, superstition, illusion are won by sound theology, reason and maturity.

5c2) Use

c2,1) Used are first natural freedoms as by nature given rooms of individual and collective movement.

c2,2) Common characteristics are eg major or minor, actual or potential, stable or fragile, seen or not.

c2,3) Modi of movement of a person and object are given by their direction, degree and path.

5c3) Expansion

Expanded can be natural environmental freedoms through man made civilizational freedoms by eg adaptive, social, educational, administrative, technical means, change of location and conditions.

5c4) Individual freedoms are possibilities of physical, mental and spiritual activities of a person.

5c5) Collective freedoms are individual freedoms in collective endeavors.

They enclose set up, maintenance, expansion, alteration, regeneration, reduction and termination of relations for eg information, assembly, association and activities in all fields of life.

5c6) Basic freedoms of privacy, security, movement, speech, action, assembly, education, property, profession, culture and religion with their limits are constitutionally codified as inalienable human rights.

5c7) Inner freedoms comprise internal, conscious neuro-physiological processing.

5c8) Outer freedoms comprise external, conscious bio-mechanical-vocal expressions.

5c9) Truth's freedom allows unrestricted research and description of God, nature, man and society.

5c10) Ethic's freedom does not allow a major inhibiting factor to run to its self-destructive end.

5c11) Historical freedom is a state of affairs with minimal causal dependencies, where not imbalances, disintegration, destruction, collapse or catastrophe determine public actions.

5c12) Cosmic freedom prevails over longer periods, where causes of historical developments with their large number of factors are not any more predictable by laws or theoretical approaches, but are subject to chances. Achievements of later born stand in alternatively open and equivalent time.

5c13) Overall freedom is the sum of singular freedoms, their combinations and interactions.

5c14) Interactions

c14,1) Singular freedoms of several persons, acting in the same direction, often in association, eg overlap, supplement, relate, combine, enlarge, multiply and reinforcing each other.

c14,2) Singular freedoms of several persons, not in interaction, coexist with each other.

c14,3) Singular freedoms of several persons, acting in opposite directions, often with bundled forces, eg level, compete, retard and conflict with each other at the expense of the other party.

5c15) Balanced freedoms grant a maximum of freedom to each individual and group within a larger community of people, delineating obligations, rights, limits and reconciliation of conflicts.

Values are deduced from the dignity of man and not a political-social one to dominate the value scale.

5c16) Limits of freedoms are natural or man made physical restrictions or sanction enforced guidelines of behavior like a social classification, statute, norm, usage, etiquette or tradition.

Common characteristics are eg resistant or ductile, enforced, circumvented or disregarded.

Their range can be given by eg shape, extent, awareness and conditions like rules of accessibility.

5c17) Inhibiting factors are restriction, bondage and incapacitation by mostly pretended justifications.

Today, common practice worldwide are arbitrary private and government restrictions to privacy, travel, migration, choice of residence and work, property and movement of ideas and goods, free speech, assembly, religion and access to communication. Means of enforcement range from social sanctions to sublime oppression to data based rooms of surveillance and administration to deception and violence.

5c18) Evaluated are freedoms as

c18,1) Rooms of movement by eg awareness, potential, reality, use and misuse.

c18,2) Restrictions by positive sources like ethics and negative sources like arbitrariness.

5d) Development

Development of man made objects out of natural and human resources is in continuation of expression a universal human activity. Molding an object, it aims at an advancement in realization of human potential. It is initiated by spiritual, mental, psychological, emotional, biological and bio-mechanical forces in combinations. Only limited by imagination, it reaches across all layers of reality.

5d1) Required is a spectrum of freedoms to arrive at tiny advancements and an achievement for man.

5d2) Supportive are positive codetermining political-economic-social environments.

5d3) Goal orientation centers by philosophy of research on the object of choice for in depth attention. Productivity is achieved by adhering to the steps of subject and object true treatment.

5d4) Means are scientific, artistic and contemplative research, human-natural resources, knowledge and capital. They are aided by experience, technical-soft skills like ingenuity, diligence and perseverance. Steps of R&D are eg literature search, field search, formulation of question, hypothesis, experiments, data collection, data evaluation, conclusion, propositional support, publication and discussion.

5d5) Creative development generates improved existing, innovative, speculative and visionary objects, which did not exist before in construction of future living environments.

5d6) Qualitative development achieves a qualitative transformation of a human drive into a mental-human-natural product with merit by applying standards of sound theology, reason, maturity and ethics.

Qualitative results are

d61) Spiritual products like a conviction, laying out a live concept.

Example is Athanasius (AD 293 - 373), who fought life-long for recognition of the Nicene creed.

d6,2) Mental products give a contribution to the canon of knowledge.

Example is Archimedes' principle, he (BC 287-212) discovered while playing with soap in a bath.

Today, development of a mental product often requires a large scale project.

d6,3) Mental-human products give an administrative contribution in service to man and environment.

Example is public trial by state authorities in cases of capital offense to break through cycles of savage blood revenge, as expounded by eg Aeschylus (BC 525-456) in his 'Eumenides'.

d6,4) Mental-human-natural products give a technical contribution in service to man and environment.

Their finished state is described by eg appearance, function, performance, quality, practicability, efficiency, specialization, differentiation, communication and energy consumption.

5d7) Long term, large scale, institutionalized, systematic research, development and their applications refine, add to, correct and spread present knowledge, generate a multitude of differentiated, specialized professional fields and niches, expand comprehension, freedoms, capabilities, radius of action with frontiers of the thinkable, calculable, do- and usable and with it human boundaries into the micro- and macroscopic over ages.

d7,1) Generated are

d7,1,1) A functionally intertwining, technological civilization with mass utilization of resources, commercialization, urbanization, modernization and globalization.

d7,1,2) Longer, faster, scaled up, more varied and detailed, interacting, interdependent, complex chains of actions and also miniscule, far off, hard to detect, unregulated, incalculable areas.

d7,2) Expanded are

d7,2,1) Theological teachings by spiritual forces through faith and sound theology.

d7,2,2) Mental conditions by social forces through maturity, research and development.

d7,2,3) Natural conditions by social forces through reason, research and development.

d7,3) Reached can be by collective moral and technical efforts self-preservation in cosmic dimensions.

5d8) Interaction of concurring, opposing, past and foreign developments can lead to eg revival, combination, supplementation, dynamic balance, coexistence, competition, eclipse and conflict.

5d9) Excesses occur through eg run-aways, large imbalances and short cuts like ideas for cash.

5d10) Inhibiting factors are eg lack of will and knowledge, counter-forces and recoil of misdevelopments.

5d11) Evaluated are developments by their immediate effects and further reaching consequences by universal to item specific standards, eg merits, co-determination of affected parties and overall costs.

5e) Conviction

Man is centered in his convictions. They are the pivotal deciding point of his actions.

They grow with emancipation and lead to increases in comprehension.

5e1) Conviction springs out of faith, an understanding of life or a vision.

It forms out a set of values, for self-interpretation human dignity, objectively universal, class-interrelation, subclass-relation, professional and item specific standards of merit and accountability.

It forms out a visible, livable concept with personal and collective goals as a contribution to life.

It strives for an overall comprehension with knowledge about God, nature, man and society, a personal responsibility, enlightenment and its envisioned result.

e1,1) A responsibility is chosen as content of one's life work in stewardship of the creation.

e1,2) Enlightenment are the means of realization with the tools of language, task, value, regulation and supervision. They overcome with spiritual-political-social will any hostile, inhibiting factor.

e1,3) Result is a qualitative transformation of a human drive into a product with lasting merit.

5e2) Emancipation springs out of human drives, bundled in intentions, conceptions, mental operations and life experience as motivational engine. They form out an individual identity with independence, self-understanding, -preservation, -reliance, -determination and -presentation.

e2,1) It enables to look, think and act for oneself to mold an object of choice in any environment.

e2,2) It adheres to standards, components and essential parts of man and society.

e2,3) A universally definable, finished object man or society does not exist.

5e3) Increase in comprehension is achieved step by step by long term, large scale, systematic research, administrative-technical means and education.

e3,1) They expand boundaries of man versus man made and natural living environments.

e3,2) They lead to long term self-preservation of man in changing cosmic environments.

5e4) Spirit of man

Nature and mind given components of man direct anthropological behavior patterns towards emancipation-comprehension based behavior patterns.

e4,1) It carries forward a natural-human-spiritual hope over future successive generations.

e4,2) Its telos is functionally directed at a realizable long term future for man.

e4,3) It is the only path of man towards moral utopia: ethical awareness with cosmic survival.

e4,4) It questions individual-social forces, responsible for the present state of political-social affairs: Are developmental steps on solid grounds? Are long term prospects reasonably justified?

5e5) Inhibiting factors

Convictions are extremely vulnerable to idolatry, superstition, illusions, deception and violence.

Today, pseudo concepts of life spring mostly out of illusions of human capabilities and convenience.

Political-military-economic interests strive for gains in power and productivity by development of a cyborg and a chimera with programmable augmented capabilities. A 'human hand directed, accelerated evolution' has become desirable by electro-magnetic-mechanical and bio-chemical-genetic means.

e5,1) They are violations against the dignity of man, autonomy of mind and body, inner freedoms of movement, integrity of health and genetic code and his naturally given equality with all mankind.

e5,2) They are violations against human responsibilities, emancipation and comprehension by mental-naturally given forces, being driven out of lower instincts of prestige, power and profit against nature.

e5,3) They are violations against transparency of intention, conception, language, action, administrative and technical tools, hiding integrated, manipulable, AI programmable control mechanisms.

A cyborg-chimera with his technical capabilities can only be identified by a barcode scan app.

e5,4) Manipulation of identity and health can only be realized by massive public opinion control.

Acceptable incisions remain diagnosis, prostheses, production of medication and somatic therapy.

e5,5) Their risks, dangers and misuses lead to a human catastrophe.

Already, military B-C-R weapons manipulate billions of psychological-physiological profiles worldwide.

III A 6 Inhibiting factors

Inhibiting factors introduce man made barriers by causes of error and intent.

6a) Errors are deficiencies in intellect.

6a1) They are caused by eg thoughtlessness, non-knowledge, mistake and irrationality.

6a2) Primitive aggrandizements are eg world, fate, fame, glory, beauty, happiness and sex appeal.

6a3) Pseudo-mental products, lacking sound theology, reason, maturity or ethics, are eg myth, idol, superstition, illusion, dogmatism, ideology, meta theory, social programming and secret policy goal.

6a4) Pseudo-logical reasonings are eg tautology, pleonasm, circular reasoning and regress ad infinitum.

6a5) They spread by eg culture, teaching, ways of thought and lead large scale to misdevelopments.

6b) Intentional barriers are defects in drives, mentality, intellectuality and spirituality, originating out of criminal inclinations, hate of man and archaic notions of prestige, power, possessions and pleasure. They defile human dignity and universal spiritual, natural, social and human values.

6b1) Targets of gain are mostly self-image, language, frame works and tangible objects.

6b2) Targets of loss are mostly the natural environment, another person's social-professional surroundings, his property and he himself.

6b3) Targets of elimination are first political-social opponents and watch dog organizations.

6b4) Means are acquiescence, subversion, corruption, deception and violence in combinations.

b4,1) Acquiescence yields to political-social pressure as way of least resistance.

b4,2) Subversion mentally disrespects the gist of an objective standard.

b4,3) Corruption physically violates an objective standard.

b4,4) Deception manipulates perceptions, understandings, intentions, communications and actions.

b4,4,1) Motivation control by eg stirring up of lower fears and desires leads to eg brutality.

b4,4,2) Justification control by eg propaganda for a political system leads to eg dogmatism.

b4,4,3) Public opinion control by eg manipulation of content, context, style and image by eg appeasement, diffusion, deflection, distortion, misinformation, omission, elimination, perversion, ridicule, entertainment, glorification, irrationality leads large scale to social reality control.

b4,5) Violence damages a spiritual, natural, man made object or human being by degrading abuse, attack by a military tool designed to do damage and misuse by a civilian tool designed to amend.

A society with a multitude of social-administrative-technical interplaying relations is extremely vulnerable to 'soft' channels of private and public coercion, curtailing inner and outer freedoms of movement.

b4,5,1) A man made object is damaged by eg tempering, misapplication and destruction.

b4,5,2) A political-social-professional framework is damaged by eg harassment, denial of ownership, disenfranchisement, expulsion, exploitation, subjugation, strangulation and enslavement.

b4,5,3) Degrading abuses are eg insult, defamation and surveillance.

b4,5,4) Impairment can be eg physical injury, disease, change in level of a genetic-physiological capacity, altered growth and differentiation of a physiological trait.

b4,5,5) Torture and murder.

6b5) Degrees can escalate in

b5,1) Place from a spot to a nation to the globe.

b5,2) Time from a point to a decade to an era.

b5,3) Organization from an individual to a criminal cartel to a fascist system.

b5,4) Technology from bio-mechanical action to professional expertise to dominating high tech.

b5,5) Severity from practical joke to manipulation to impairment to bestiality to fascism.

6b6) Combinations for

b6,1) Prestige lead to image fascism.

b6,2) Power lead to system fascism.

b6,3) Possessions lead to order fascism.

b6,4) Pleasure lead to hedonism.

b6,5) Systematic, population wide fascist formations lead to in- and external hegemonic policies.

6b7) Today the major powers' hegemonic policies are defined by secret policy goals for global political-military-scientific-technological-economic superiority. A worldwide system of labor camps realizes facades like constitutionality, gapless surveillance, elimination of dissent by deterring torture and social programming, channeling with clandestine B-C-R weapons individual psychological and physiological processes and in planning genetic-demographic structures of entire populations.

III A 7 Summary

Man is a complex mental, functional, multi-dimensional, regenerating form of life, reaching from his human center, conviction, into the extremes of life. He is in all aspects depictable. He is independent and social, abstract and concrete, dynamic and passive, free and submissive, reflective and thoughtless.

7a) Achievements

He has made huge progresses over the last three millennia in the humanities, natural sciences, mathematics, logic, collection and spread of knowledge and technological applications with expansion of his radius of action and production of wealth. His environments are dominated by man-made products.

7b) Failures

He does not practice cognition to see himself, his intentions, conceptions and expressions with their positive or negative consequences. He does not know how to overcome inhibiting factors. He does not extrapolate himself into the future, combining a spiritual hope with a real prospect in cosmic dimensions. Basic utopia is ethical awareness. His aspirational red thread is constitutionality. 'Act justly and love mercy...' (Micah 6,8) is a spiritual principle in opposition to a human or theoretical one. Man is guilty in millions of cases per year of hunger, epidemic, inequity of wealth, overpopulation, environmental destruction, exploitation and, by image fascism covered up conventional and B-C-R micro weapons of mass destruction, of human rights violations, subjugation, degradation, rape, physical injury, torture, mass murder, civil strife and war.

The Chimney
To my friend Hannah Ungar

Daily behind the barracks
I see fire and smoke abound,
Jews, stoop down your necks,
You will be gased and burned.
Don't you see in the haze
A torture torn face?
Doesn't it call with derision:
Five millions already devoured.
Auschwitz is held in its vices -
Everything, everthing is cinder.

Ruth Klüger (1944)
(abr. trans. by U. F.)

Daily behind lighted ads
Silenced are exhorting voices
Against torture and autocrats
In whimpers and muted cries.
They are being called to order
By collapse and secret power.
Docs, lawyers break for pause,
A few drops for a good cause.
Millions sent to their last refuge,
Always, always the bells accuse.

Udo Frentzen (2014)

7c) Self-extinction

Man has allowed to let himself be prostituted by his lower instincts of prestige, power, possessions and pleasure to fall in his freedoms indefinitely low, if not arrested. After colonialism, two world wars and genocide, today with new mass murder technologies, the sum of multiple, escalating gross corruptions in excess of boundaries will lead inevitably to collapse of political-social systems, planetary catastrophes and self-extinction of mankind.