Genome Matrix

|  | Fundamental: Basic or Physical, Characteristics-What, How, Where, or Who | Values: Motivating Beliefs, Global Desires, Ethics, Moral Matters | Measures: Objectives (Criteria, Merit and Worth Factors), Goals (How Much When, Rates, Performance Specifications) | Control: How to Evaluate and Modify Element or System as It Operates | Interface: Relation of Dimensions to other Systems or Elements | Future: Planned Changes and Needs for all Dimensions |
|---|---|---|---|---|---|---|
| Purpose: mission, aim, need, primary concern, focus | AAT | ACT | GAG | TAG | TTC | TTG |
| Inputs: people, things, information to start the sequence | CCA | TCT | AAC | GAT | ACA | ATA |
| Outputs: desired (achieves purpose) and undesired outcomes from sequence | GGT | TGC | TTA | ATG | ATC | CAG |
| Sequence: steps for processing inputs, flow, layout, unit operations | AGT | GTC | CGT | GTA | GTG | GGC |
| Environment: physical & attitudinal, organization, setting, etc | ACG | AGC | TCA | CCT | GCA | GAC |
| Human Agents: skills, personnel, rewards, responsibilities, etc. | CAT | GCG | CTG | GCT | CGA | CTA |
| Physical Catalysts: equipment, facilities, etc. | CGC | GGA | TCG | CAC | CCG | AGA |
| Information Aids: books, instructions, etc. | AAG | TAC | TGT | TAT | CTC | TGA |

## The Genetic Foundation for the Relationship Between Words, Concepts and Search Engine Protocols within a P&D Effort

(The Genetic Hierarchical Classification of Words, Concepts, Ideas & Search Engine Protocols)

1) Actions
   a. Class of 1-6 **[TTT]**
   b. Cognitive 7-43 **[TTC.]**
   c. Communicative 44-79 **[TTA]**
   d. General 80-143 **[TTG]**
   e. Motion 144-154 **[TCT]**
   f. Physical 155-226 **[TCC]**

2) Causes
   a. Abstract 227-246 **[TCA]**
   b. Physical 247-255 **[TCG]**

3) Fields of Human Activity [A1]
   a. Agriculture 256-257 **[TAT]**
   b. The Arts 258-264 **[TAC]**
   c. Communications 265-283 **[TAA]**
   d. Education 284-290 **[TAG]**
   e. Entertainment 291-293 **[TGT]**
   f. Family 294-296 **[TGC]**
   g. Government and Politics 297-300 **[TGA]**
   h. Health 301-315 **[TGG]**
   i. Legal 316-318 **[CTT]**
   j. Military 319-321 **[CTC]**
   k. Monetary and Financial Affairs 322-345 **[CTA]**
   l. Professions 346-361 **[CTG]**
   m. Recreation 362-365 **[CCT]**
   n. Religious 366-369 **[CCC]**
   o. Sex and Reproduction 370-374 **[CCA]**
   p. Social Interactions 375-387 **[CCG]**

4) Life Forms
   a. Being 388-392 **[CAT]**
   b. Beings, Animal 393-399 **[CAC]**
   c. General Characteristics 400-410 **[CAA]**
   d. Humans 411-423 **[CAG]**
   e. Plants 424-430 **[CGT]**

5) Objects
   a. Articles, Physical 431-435 **[CGC]**
   b. Atmosphere 436 **[CGA]**
   c. Buildings, Furnishings, & Possessions 437-448 **[CGG]**
   d. Clothing 449-452 **[ATT]**
   e. Food and Drink 453-461 **[ATC]**
   f. Machines 462-463 **[ATA]**
   g. Matter, Conditions of 464-470 **[ATG]**
   h. Matter, Divisions of 471-478 **[ACT]**
   i. Matter, Qualities of 479-490 **[ACC]**
   j. Tools 491-499 **[ACA]**
   k. Transportation 500-505 **[ACG]**

6) The Planet(s)
   a. Geography 506-513 **[AAT]**
   b. Habitats 514-517 **[AAC]**
   c. Natural Resources 518-522 **[AAA]**
   d. Weather 523-525 **[AAG]**

7) Qualities
   a. Abstract 526-559 **[AGT]**
   b. Comparative 560-574 **[AGC]**
   c. Physical 575-588 **[AGA]**

8) Senses
   a. Aspects of Perception 589 **[AGG]**
   b. Auditory 590-596 **[GTT]**
   c. Olfactory 597-601 **[GTC]**
   d. Tactile 602-611 **[GTA]**
   e. Tasting 612-615 **[GTG]**
   f. Visual 616-628 **[GCT]**

9) States
   a. Abstract 629-657 **[GCC]**
   b. Cognitive 658-661 **[TTC.]**
   c. Comparative 662-670 **[GCA]**
   d. Of Being 671-694 **[GCG]**
   e. Of Change 695-702 **[GAT]**
   f. Of Need or Achievement 703-710 **[GAC]**
   g. Physical 711-731 **[GAA]**
   h. Spatial 732-758 **[GAG]**

10) Weights and Measures
   a. Mathematics 759-767 **[GGT]**
   b. Quantifiers 768-793 **[GGC]**
   c. Time 794-820 **[GGA]**
   d. Wholeness or Division 821-834 **[GGG]**

## The Procedural Titles & Processes for Search Engine Forward Chaining Sequences within a Genetic P&D Matrix

1. Not Applicable
2. [TAG] Purpose, Control (4)
3. [GAG] Purpose, Measures (3)
4. [TGC] Outputs, Values (14)
5. [GCT] Human Agents, Control (34)
6. [TCG] Physical Catalysts, Measures (39)
7. [AAC] Inputs, Measures (9)
8. [GAT] Inputs, Control (10)
9. [TCA] Environment, Measures (27)
10. [GAC] Environment, Future (30)
11. [GCA] Environment, Interface (29)
12. [GGT] Outputs, Fundamental (13)
13. [TTA] Outputs, Measures (15)
14. [CGT] Sequence, Measures (21)
15. [CAG] Outputs, Future (18)
16. [GGC] Sequence, Future (24)
17. [TGA] Information Aids, Future (48)
18. [CCA] Inputs, Fundamental (7)
19. [ACT] Purpose, Values (2)
20. Same as (22), but as an additional process
21. [CAC] Physical Catalysts, Control (40)
22. [CTG] Human Agents, Measures (33)
23. [CAT] Human Agents, Fundamental (31)
24. [GCG] Human Agents, Values (32)
25. [AAT] Purpose, Fundamental (1)
26. [ATC] Outputs, Interface (17)
27. [GTC] Sequence, Values (20)
28. [CGA] Human Agents, Interface (35)
29. [TCT] Inputs, Values (8)
30. [TAC] Information Aids, Values (44)
31. [TAT] Information Aids, Control (46)
32. [CCT] Environment, Control (28)
33. [TGT] Information Aids, Measures (45)
34. [AGT] Sequence, Fundamental (19)
35. [TTG] Purpose, Future (6)
36. [GTA] Sequence, Control (22)
37. [GTG] Sequence, Interface (23)
38. [ATG] Outputs, Control (16)
39. [CCG] Physical Catalysts, Interface (41)
40. [GGA] Physical Catalysts, Values (38)
41. [AGC] Environment, Values (26)
42. [TTC] Purpose, Interface (5)
43. [AAG] Information Aids, Fundamental (43)
44. [ACA] Inputs, Interface (11)
45. [ACG] Environment Fundamental (25)
46. [AGA] Physical Catalysts, Future (42)
47. [ATA] Inputs, Future (12)
48. [CTC] Information Aids, Interface (47)
49. [CGC] Physical Catalysts, Fundamental (37)
50. [CTA] Human Agents, Future (36)

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# The Procedural Titles & Processes for Search Engine Backward Chaining Sequences within a Genetic P&D Matrix

(The Operational Mindset or Genetic Embodiment of Gaius Julius Caesar Involving the Staging for Commercial Expansionism through the Global Market Principles of Frederick Von Hayek)

1. Describe/Establish/Measure Relationships (VIII)
2. [UAG] Analyze Project Impacts on Society (II)
3. [GAG] Analyze Policy Setting & Decision-Making Variables (XVI)
4. [UGC] Establish Project Schedules & Basis for Measuring Progress & Performance (III)
5. [GCU] Involve People (XIV)
6. [UCG] Identify (Product) Opportunities (I)
7. [AAC] Estimate Budget & Dollar Requirements (XI)
8. [GAU] Analyze Investments (XVI)
9. [UCA] Identify (Project) Opportunities (Ia)
10. [GAC] Appraise/Assess Investments (XVI)
11. [GCA] Inform & Involve Citizens (XIV)
12. [GGU] Appraise/Assess Alternative Options/Plans/Policies/ Programs/Contingencies/Functions (XVI)
13. [UUA] Collect Data and/or Information (I)
14. [CGU] Identify Regularities (VI)
15. [CAG] Establish Priorities (VI)
16. [GGC] Evaluate Alternatives (XVI)
17. [UGA] Establish Project Schedules & Basis for Measuring Progress & Performance (III)
18. [CCA] Approach Problems (V)
19. [ACU] Evaluate Interpersonal Relationships, Performance & Effectiveness of an Organization (VIII)
20. Categorize/Classify Alternatives (VI)
21. [CAC] Organize Alternatives (VI)
22. [CUG] Identify Problems, Overlaps & Conflicts (V)
23. [CAU] Rank Alternatives (VI)
24. [GCG] Test Impact of Different Values of an Attribute/Parameter/Variable (XV)
25. [AAU] Generate a List of Possible Purpose/Function Statements (X)
26. [AUC] Portray an Order of Events (VII)
27. [GUC] Develop (Enhance) Creativity (XII)
28. [CGA] Preserve an Image (VII)
29. [UCU] Analyze Job Methods & Motions (I)
30. [UAC] Appraise/Assess Projects (II)
31. [UAU] Analyze Projects (II)
32. [CCU] Identify Management Styles (V)
33. [UGU] Measure Projects Progress & Performance (III)
34. [AGU] Predict Future Conditions (XI)
35. [UUG] Identify New Product Quality (I)
36. [GUA] Produce Consensus (XIII)
37. [GUG] Stimulate Creativity of People (XIII)
38. [AUG] Rate Conditions (VIII)
39. [CCG] Weight Criteria or Factors (VI)
40. [GGA] Measure Errors (XVI)
41. [AGC] Detail Proposed Solution (XI)
42. [UUC] Collect and/or Organize Performance Information (I)
43. [AAG] Determine Human Ability & Skill Requirements for Tasks (XI)
44. [ACA] Analyze Alternative Options/Plans/Policies/Programs/Contingencies/Functions (IX)
45. [ACG] Develop & Analyze Structure (IX)
46. [AGA] Generate Alternatives/Ideas (XII)
47. [AUA] Plot & Analyze Data about the Performance of an Existing Installation (VII)
48. [CUC] Appraise/Assess Systems (IV)
49. [CGC] Provide Graphic Representations (VII)
50. [CUA] Analyze Systems (IV)

# The Organizational Profile for 5-Phase Educational Development within a Genetic-based P&D Effort

(Search Engine Integration & Systems Verification Processes)

## PHASE ONE

I. Collect and/or Organize Performance Information, Collect Data and/or Information, Identify New Product Quality, Analyze Job Methods and Motions, Identify Project Opportunities, Identify (Product) Opportunities ([UUU] UUC, UUA, UUG, UCU, UCA and UCG)

II. Analyze Projects, Appraise/Assess Projects, Analyze Project Impacts on Society ([UCC] UAU, UAC and UAG)

III. Measure Project Progress and Performance, Establish Project Schedules and Basis for Measuring Progress and Performance, EPSBMPP2 ([UAA] UGU, UGC and UGA)

IV. Appraise/Assess Systems, Analyze Systems ([UGG] CUC and CUA)

V. Identify Problems, Overlaps, and Conflicts, Identify Management Styles, Approach Problems ([CUU] CUG, CCU and CCA)

VI. Weight Criteria or Factors, Rank Alternatives, Organize Alternatives, Categorize/Classify Alternatives, Establish Prior ties, Identify Regularities ([CCC] CCG, CAU, CAC, CAG and CGU)

VII. Provide Graphic Representations, Preserve an Image, Portray an Order of Events, Plot and Analyze Data about the Performance of an Existing Installation ([CAA] CGC, CGA, AUC and AUA)

## PHASE TWO

VIII. Rate Conditions, Describe/Establish/Measure Relationships, Evaluate Interpersonal Relationships, Performance, and Effectiveness of an Organization ([CGG] AUG and ACU)

IX. Analyze Alternative Options/Plans/Policies/Programs/Contingencies/Functions, Develop and Analyze Structure ([AUU] ACA and AC

X. Generate a List of Possible Purpose/Function Statements ([ACC] AAU)

## PHASE THREE

XI. Estimate Budget and Dollar Requirements, Determine Human Ability and Skill Requirements for Tasks, Predict Future Conditions, De
Proposed Solution ([AAA] AAC, AAG, AGU and AGC)

## PHASE FOUR

XII. Generate Alternatives/Ideas, Develop (Enhance) Creativity ([AGG] AGA and GUC)

XIII. Produce Consensus, Stimulate Creativity of People ([GUU] GUA and GUG)

## PHASE FIVE

XIV. Involve People, Inform and Involve Citizens ([GCC] GCU and GCA)

XV. Test Impact of Different Values of an Attribute/Parameter/Variable ([GAA] GCG)

XVI. Analyze Investments, Appraise/Assess Investments, Analyze Policy Setting and Decision-Making Variables, Appraise/Assess Alternat
Options/Plans/Policies/Programs/Contingencies/Functions, Evaluate Alternatives, Measure Errors ([GGG] GAU, GAC, GAG, GGU,
GGA)

# The Chromosomal Elements within an IBOS[DOSA/DALP/IAOA] Genetic-Based Consultative P&D Formula Matrix

**24. INTERFACE-ENVIRONMENT**

1. MEASURES-ENVIRONMENT/MEASURES-HUMAN AGENTS
2. MEASURES-PURPOSE/MEASURES-SEQUENCE
3. MEASURES-INPUTS/MEASURES-OUTPUTS
4. VALUES-INFORMATION AIDS/VALUES-PHYSICAL CATALYSTS
5. MEASURES-INFORMATION AIDS/MEASURES-PHYSICAL CATALYSTS
6. INTERFACE-PURPOSE/INTERFACE-SEQUENCE
7. CONTROL-ENVIRONMENT/CONTROL-HUMAN AGENTS
8. VALUES-PURPOSE/VALUES-SEQUENCE
9. FUNDAMENTAL-PURPOSE/FUNDAMENTAL-SEQUENCE
10. FUNDAMENTAL-ENVIRONMENT/FUNDAMENTAL-HUMAN AGENTS
11. FUTURE-INPUTS/FUTURE-OUTPUTS
12. CONTROL-INFORMATION AIDS/CONTROL-PHYSICAL CATALYSTS
13. FUTURE-PURPOSE/FUTURE-SEQUENCE
14. CONTROL-PURPOSE/CONTROL-SEQUENCE
15. CONTROL-INPUTS/CONTROL-OUTPUTS
16. VALUES-INPUTS/VALUES-OUTPUTS
17. FUTURE-INFORMATION AIDS/FUTURE--PHYSICAL CATALYSTS
18. VALUES-ENVIRONMENT/VALUES-HUMAN AGENTS
19. INTERFACE-INFORMATION AIDS/INTERFACE-PHYSICAL CATALYSTS
20. INTERFACE-INPUTS/INTERFACE-OUTPUTS
21. FUTURE-ENVIRONMENT/FUTURE-HUMAN AGENTS
22. FUNDAMENTAL-INFORMATION AIDS/FUNDAMENTAL-PHYSICAL CATALYSTS
23. FUNDAMENTAL-INPUTS/FUNDAMENTAL-OUTPUTS

**24. INTERFACE-HUMAN AGENTS**

# The Upper & Lower Level Change Equation Components for Chromosomal Development & Implementation within a P&D Effort Involving Personnel in a Real-Time or Virtual Scenario Environment

(The 23 or 24 Base Pair Chromosomal Elements within a IBOS[DALP/DOSA/IAOA] Genetic Formula Matrix)

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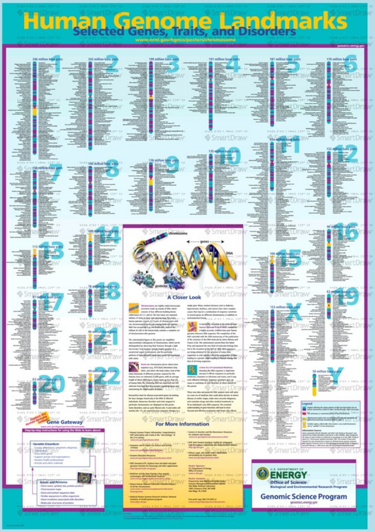
1. Evaluation & Alphanumeric Computations [N/S 3 part format-left-side (Future-Inputs/Future-Outputs)] - - Chromosomal Type Set/Chromosomal P&D Systems User Investigative Profile (Autonomous Agent(s) Request(s)) & Dictionary of Occupational Titles Application Selections [M/C 3 part format-right-side (Measures-Environment/Measures-Human Agents)] - - Chromosomal Type Set/Chromosomal Sequences
2. P&D Systems Feasible Ideal Solution Target Study [**G/O** 4 part format-right-side (Measures-Purpose/Measures-Sequence)] - - Chromosomal Type Set/Chromosomal Sequences
3. P&D Systems Investigative Matrixes [**G/O** 3 part format-left-side (Measures-Inputs/Measures Outputs] - - Chromosomal Type Set/Chromosomal Sequences
4. P&D Systems Analysis & Taxonomy Development [N/S 5 part format-left-side (Values-Information Aids/Values-Physical Catalysts)] - - Chromosomal Type Set/Chromosomal Sequences
5. P&D Systems Design Classification(s) & Hierarchical Formation [**G/O** 4 part format-right-side (Measures-Information Aids/Measures-Physical Catalysts)] - - Chromosomal Type Set/Chromosomal Sequences
6. P&D Systems Programming & Chromosomal Formula Matrix Development [M/C 5 part format-left-side (Interface-Purpose/Interface-Sequence)] - - Chromosomal Type Set/Chromosomal Sequences
7. P&D Systems Group Ordering Logic & MRP/ERP Testing [**P/A** 3 part format-right-side (Control-Environment/Control-Human Agents)] - - Chromosomal Type Set/Chromosomal Sequences
8. P&D Systems Documentation & Procedural Guidelines[N/S 3 part format-left-side (Values-Purpose/Values-Sequence)] - - Chromosomal Type Set/Chromosomal Sequences
9. P&D Systems Conversion & Analogous Implementations [**G/O** 3 part format-right-side (Fundamental-Purpose/Fundamental-Sequence)] - - Chromosomal Type Set/Chromosomal Sequences
10. P&D Systems Maintenance, Enterprise Work Architectural Profile & Autonomous Agent(s) Repository [**G/O** 4 part format-left-side (Fundamental-Environment/Fundamental-Human Agents)] - - Chromosomal Type Set/Chromosomal Sequences
11. P&D Systems Sequences

1. P&D Project Initiation (Hardware/Software) **Power/Authority** Chromosomal Configurations [(Control-Information Aids/Control-Physical Catalysts)] - - Chromosomal Type Set/Chromosomal Sequences
2. P&D Project Development (The Project) **Norms/Standards** Chromosomal Configurations [(Future-Purpose/Future-Sequence)] - - Chromosomal Type Set/Chromosomal Sequences
3. P&D Project Implementation (The User Climate/Autonomous Agent Conditional Formation) **Goals/Objectives** Chromosomal Configurations [(Control-Purpose/Control-Sequence)] - - Chromosomal Type Set/Chromosomal Sequences
4. P&D Post Project Evaluation (The Systems Analysts/Autonomous Agent Activities) **Morale/Cohesion** Chromosomal Configurations [(Control-Inputs/Control-Outputs)] - - Chromosomal Type Set/Chromosomal Sequences

1. P&D Subordinate Genetic-Based Environmental Inputs [3 part **Norms/Standards**] [(Values-Inputs/Values-Outputs)] - - Chromosomal Type Set/Chromosomal Sequences
2. P&D Subordinate Genetic-Based Computer Matrixes [3 part **Norms/Standards**] [(Future-Information Aids/Future-Physical Catalysts)] - - Chromosomal Type Set/Chromosomal Sequences
3. P&D Subordinate Genetic-Based Environmental Outputs [3 part **Norms/Standards**] [(Values-Environment/Values-Human Agents)] - - Chromosomal Type Set/Chromosomal Sequences

1. P&D Method Phase-One [5 part **Goals/Objectives** (The Dictionary of Occupational Titles)] [(Interface-Information Aids/Interface-Physical Catalysts)] - - Chromosomal Type Set/Chromosomal Sequences
2. P&D Method Phase-Two [5 part **Goals/Objectives** (The Dictionary of Occupational Titles)] [(Interface-Inputs/Interface-Outputs)] - - Chromosomal Type Set/Chromosomal Sequences
3. P&D Method Phase-Three [5 part **Goals/Objectives** (The Dictionary of Occupational Titles)] [(Future-Environment/Future-Human Agents)] - - Chromosomal Type Set/Chromosomal Sequences
4. P&D Method Phase-Four [5 part **Goals/Objectives** (The Dictionary of Occupational Titles)] [(Fundamental-Information Aids/Fundamental-Physical Catalysts)] - - Chromosomal Type Set/Chromosomal Sequences
5. P&D Method Phase-Five [5 part **Goals/Objectives** (The Dictionary of Occupational Titles)] [(Fundamental-Inputs/Fundamental-Outputs)] - - Chromosomal Type Set/Chromosomal Sequences

Legend – [Gaius Julius Caesar] Hierarchical format for Economic Legions


Human Genome Landmarks
Selected Genes, Traits, and Disorders
www.ornl.gov/hgmis/posters/chromosome
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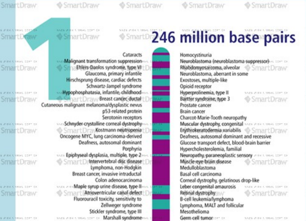
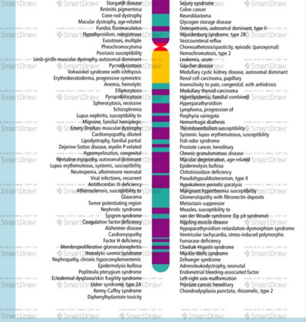
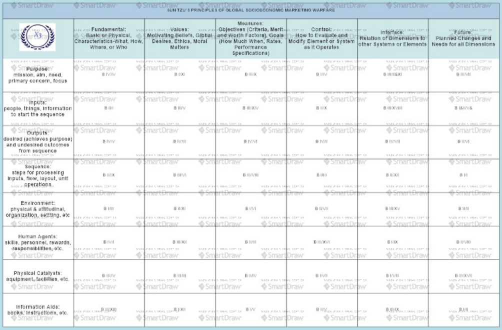
X
Y
chromosome
genes
DNA
proteins
A Closer Look
For More Information
Gene Gateway
Legend
U.S. DEPARTMENT OF ENERGY
Office of Science
Genomic Science Program
genomics.energy.gov


1
246 million base pairs
Cataracts
Malignant transformation suppression
Ehlers-Danlos syndrome, type VI
Glaucoma, primary infantile
Hirschsprung disease, cardiac defects
Schwartz-Jampel syndrome
Hypophosphatasia, infantile, childhood
Breast cancer, ductal
Cutaneous malignant melanoma/dysplastic nevus
p53-related protein
Serotonin receptors
Schnyder crystalline corneal dystrophy
Kostmann neutropenia
Oncogene MYC, lung carcinoma-derived
Deafness, autosomal dominant
Porphyria
Epiphyseal dysplasia, multiple, type 2
Intervertebral disc disease
Lymphoma, non-Hodgkin
Breast cancer, invasive intraductal
Colon adenocarcinoma
Maple syrup urine disease, type II
Atrioventricular canal defect
Fluorouracil toxicity, sensitivity to
Zellweger syndrome
Stickler syndrome, type III
Marshall syndrome
Homocystinuria
Neuroblastoma (neuroblastoma suppressor)
Rhabdomyosarcoma, alveolar
Neuroblastoma, aberrant in some
Exostoses, multiple-like
Opioid receptor
Hyperprolinemia, type II
Bartter syndrome, type 3
Prostate cancer
Brain cancer
Charcot-Marie-Tooth neuropathy
Muscular dystrophy, congenital
Erythrokeratodermia variabilis
Deafness, autosomal dominant and recessive
Glucose transport defect, blood-brain barrier
Hypercholesterolemia, familial
Neuropathy, paraneoplastic sensory
Muscle-eye-brain disease
Medulloblastoma
Basal cell carcinoma
Corneal dystrophy, gelatinous drop-like
Leber congenital amaurosis
Retinal dystrophy
B-cell leukemia/lymphoma
Lymphoma, MALT and follicular
Mesothelioma
Germ cell tumor

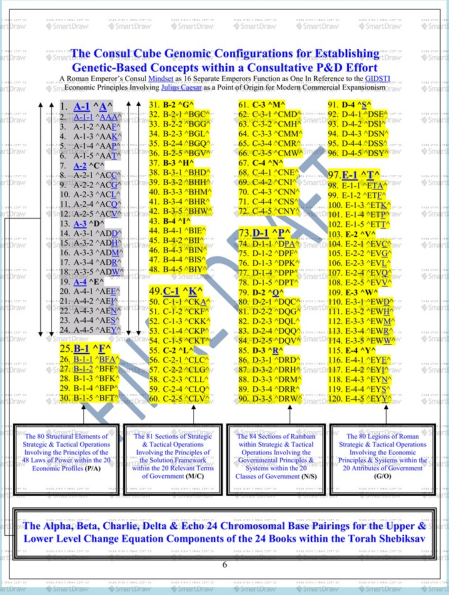
SmartDraw


Stargardt disease
Retinitis pigmentosa
Cone-rod dystrophy
Macular dystrophy, age-related
Fundus flavimaculatus
Hypothyroidism, nongoitrous
Exostoses, multiple
Pheochromocytoma
Psoriasis susceptibility
Limb-girdle muscular dystrophy, autosomal dominant
Pycnodysostosis
Vohwinkel syndrome with ichthyosis
Erythrokeratoderma, progressive symmetric
Anemia, hemolytic
Elliptocytosis
Pyropoikilocytosis
Spherocytosis, recessive
Schizophrenia
Lupus nephritis, susceptibility to
Migraine, familial hemiplegic
Emery-Dreifuss muscular dystrophy
Cardiomyopathy, dilated
Lipodystrophy, familial partial
Dejerine-Sottas disease, myelin P-related
Hypomyelination, congenital
Nemaline myopathy, autosomal dominant
Lupus erythematosus, systemic, susceptibility
Neutropenia, alloimmune neonatal
Viral infections, recurrent
Antithrombin III deficiency
Atherosclerosis, susceptibility to
Glaucoma
Tumor potentiating region
Nephrotic syndrome
Sjogren syndrome
Coagulation factor deficiency
Alzheimer disease
Cardiomyopathy
Factor H deficiency
Membroproliferative glomerulonephritis
Hemolytic-uremic syndrome
Nephropathy, chronic hypocomplementemic
Epidermolysis bullosa
Popliteala pterygium syndrome
Ectodermal dysplasia/skin fragility syndrome
Usher syndrome, type 2A
Kenny-Caffey syndrome
Diphenylhydantoin toxicity
Sezary syndrome
Colon cancer
Neuroblastoma
Glycogen storage disease
Osteopetrosis, autosomal dominant, type II
Waardenburg syndrome, type 2B
Vesicoureteral reflux
Choreoathetosis/spasticity, episodic (paroxysmal)
Hemochromatosis, type 2
Leukemia, acute
Gaucher disease
Medullary cystic kidney disease, autosomal dominant
Renal cell carcinoma, papillary
Insensitivity to pain, congenital, with anhidrosis
Medullary thyroid carcinoma
Hyperlipidemia, familial combined
Hyperparathyroidism
Lymphoma, progression of
Porphyria variegata
Hemorrhagic diathesis
Thromboembolism susceptibility
Systemic lupus erythematosus, susceptibility
Fish-odor syndrome
Prostate cancer, hereditary
Chronic granulomatous disease
Macular degeneration, age-related
Epidermolysis bullosa
Chitotriosidase deficiency
Pseudohypoaldosteronism, type II
Hypokalemic periodic paralysis
Malignant hyperthermia susceptibility
Glomerulopathy with fibronectin deposits
Metastasis suppressor
Measles, susceptibility to
van der Woude syndrome (lip pit syndrome)
Rippling muscle disease
Hypoparathyroidism-retardation-dysmorphism syndrome
Ventricular tachycardia, stress-induced polymorphic
Fumarase deficiency
Chediak-Higashi syndrome
Muckle-Wells syndrome
Zellweger syndrome
Adrenoleukodystrophy, neonatal
Endometrial bleeding-associated factor
Left-right axis malformation
Prostate cancer, hereditary
Chondrodysplasia punctata, rhizomelic, type 2



SUN TZU'S PRINCIPLES OF GLOBAL SOCIOECONOMIC MARKETING WARFARE

|  | Fundamental: Basic or Physical, Characteristics-What, How, Where, or Who | Values: Motivating Beliefs, Global Desires, Ethics, Moral Matters | Measures: Objectives (Criteria, Merit and Worth Factors), Goals (How Much When, Rates, Performance Specifications) | Control: How to Evaluate and Modify Element or System as it Operates | Interface: Relation of Dimensions to other Systems or Elements | Future: Planned Changes and Needs for all Dimensions |
|---|---|---|---|---|---|---|
| Purpose: mission, aim, need, primary concern, focus | B IV/IV | B I/XI | B III/X | B I/IV | B III/II&XI | B III/VII |
| Inputs: people, things, information to start the sequence | B I/II | B III/V | B III/XIV | B II/X | B III/XVIII | B I&II/V& |
| Outputs: desired (achieves purpose) and undesired outcomes from sequence | B IV/V | B IV/III | B IV/VI | B IV/II | B IV/VII | B II/VI |
| Sequence: steps for processing inputs, flow, layout, unit operations | B III/X | B III/VI | B III/VIII | B III/I | B II/XII | B I/I |
| Environment: physical & attitudinal, organization, setting, etc | B I/III | B II/XI | B I/VI | B II/VII | B III/XV | B II/II |
| Human Agents: skills, personnel, rewards, responsibilities, etc. | B IV/I | B III/XII | B II/III | B III/XVI | B I/IX | B II/VIII |
| Physical Catalysts: equipment, facilities, etc. | B III/V | B III/III | B II/IV | B I/VII | B I/VIII | B III/XVII |
| Information Aids: books, instructions, etc. | B III/XIII | B I/XII | B I/V | B II/V | B III/X | B I/II |



## The Consul Cube Genomic Configurations for Establishing Genetic-Based Concepts within a Consultative P&D Effort

A Roman Emperor's Consul Mindset as 16 Separate Emperors Function as One In Reference to the GIDSTI Economic Principles Involving Julius Caesar as a Point of Origin for Modern Commercial Expansionism

1. **A-1 ^A^**
2. A-1-1 ^AAA^
3. A-1-2 ^AAF^
4. A-1-3 ^AAK^
5. A-1-4 ^AAP^
6. A-1-5 ^AAT^
7. **A-2 ^C^**
8. A-2-1 ^ACC^
9. A-2-2 ^ACG^
10. A-2-3 ^ACL^
11. A-2-4 ^ACQ^
12. A-2-5 ^ACV^
13. **A-3 ^D^**
14. A-3-1 ^ADD^
15. A-3-2 ^ADH^
16. A-3-3 ^ADM^
17. A-3-4 ^ADR^
18. A-3-5 ^ADW^
19. **A-4 ^E^**
20. A-4-1 ^AEE^
21. A-4-2 ^AEI^
22. A-4-3 ^AEN^
23. A-4-4 ^AES^
24. A-4-5 ^AEY^
25. **B-1 ^F^**
26. B-1-1 ^BFA^
27. B-1-2 ^BFF^
28. B-1-3 ^BFK^
29. B-1-4 ^BFP^
30. B-1-5 ^BFT^
31. **B-2 ^G^**
32. B-2-1 ^BGC^
33. B-2-2 ^BGG^
34. B-2-3 ^BGL^
35. B-2-4 ^BGQ^
36. B-2-5 ^BGV^
37. **B-3 ^H^**
38. B-3-1 ^BHD^
39. B-3-2 ^BHH^
40. B-3-3 ^BHM^
41. B-3-4 ^BHR^
42. B-3-5 ^BHW^
43. **B-4 ^I^**
44. B-4-1 ^BIE^
45. B-4-2 ^BII^
46. B-4-3 ^BIN^
47. B-4-4 ^BIS^
48. B-4-5 ^BIY^
49. **C-1 ^K^**
50. C-1-1 ^CKA^
51. C-1-2 ^CKF^
52. C-1-3 ^CKK^
53. C-1-4 ^CKP^
54. C-1-5 ^CKT^
55. **C-2 ^L^**
56. C-2-1 ^CLC^
57. C-2-2 ^CLG^
58. C-2-3 ^CLL^
59. C-2-4 ^CLQ^
60. C-2-5 ^CLV^
61. **C-3 ^M^**
62. C-3-1 ^CMD^
63. C-3-2 ^CMH^
64. C-3-3 ^CMM^
65. C-3-4 ^CMR^
66. C-3-5 ^CMW^
67. **C-4 ^N^**
68. C-4-1 ^CNE^
69. C-4-2 ^CNI^
70. C-4-3 ^CNN^
71. C-4-4 ^CNS^
72. C-4-5 ^CNY^
73. **D-1 ^P^**
74. D-1-1 ^DPA^
75. D-1-2 ^DPF^
76. D-1-3 ^DPK^
77. D-1-4 ^DPP^
78. D-1-5 ^DPT^
79. **D-2 ^Q^**
80. D-2-1 ^DQC^
81. D-2-2 ^DQG^
82. D-2-3 ^DQL^
83. D-2-4 ^DQQ^
84. D-2-5 ^DQV^
85. **D-3 ^R^**
86. D-3-1 ^DRD^
87. D-3-2 ^DRH^
88. D-3-3 ^DRM^
89. D-3-4 ^DRR^
90. D-3-5 ^DRW^
91. **D-4 ^S^**
92. D-4-1 ^DSE^
93. D-4-2 ^DSI^
94. D-4-3 ^DSN^
95. D-4-4 ^DSS^
96. D-4-5 ^DSY^
97. **E-1 ^T^**
98. E-1-1 ^ETA^
99. E-1-2 ^ETF^
100. E-1-3 ^ETK^
101. E-1-4 ^ETP^
102. E-1-5 ^ETT^
103. **E-2 ^V^**
104. E-2-1 ^EVC^
105. E-2-2 ^EVG^
106. E-2-3 ^EVL^
107. E-2-4 ^EVQ^
108. E-2-5 ^EVV^
109. **E-3 ^W^**
110. E-3-1 ^EWD^
111. E-3-2 ^EWH^
112. E-3-3 ^EWM^
113. E-3-4 ^EWR^
114. E-3-5 ^EWW^
115. **E-4 ^Y^**
116. E-4-1 ^EYE^
117. E-4-2 ^EYI^
118. E-4-3 ^EYN^
119. E-4-4 ^EYS^
120. E-4-5 ^EYY^

The 80 Structural Elements of Strategic & Tactical Operations Involving the Principles of the 48 Laws of Power within the 20 Economic Profiles **(P/A)**

The 81 Sections of Strategic & Tactical Operations Involving the Principles of the Solution Framework within the 20 Relevant Terms of Government **(M/C)**

The 84 Sections of Rambam within Strategic & Tactical Operations Involving the Governmental Principles & Systems within the 20 Classes of Government **(N/S)**

The 80 Legions of Roman Strategic & Tactical Operations Involving the Economic Principles & Systems within the 20 Attributes of Government **(G/O)**

**The Alpha, Beta, Charlie, Delta & Echo 24 Chromosomal Base Pairings for the Upper & Lower Level Change Equation Components of the 24 Books within the Torah Shebiksav**

SmartDraw

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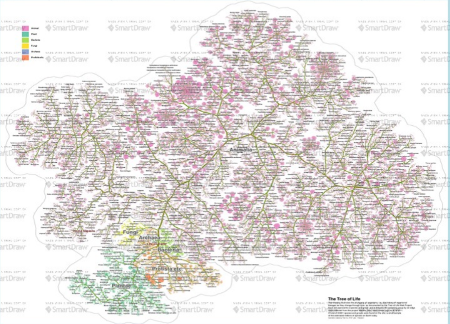
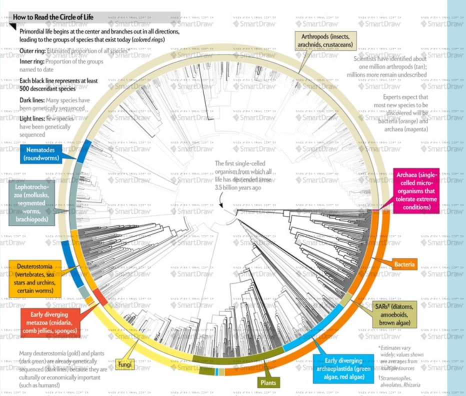

Animal
Plant
Bacteria
Fungi
Archaea
Protista etc.
Animalia
Fungi
Archaea
Bacteria
Protista etc.
Plantae

**The Tree of Life**



## How to Read the Circle of Life

Primordial life begins at the center and branches out in all directions, leading to the groups of species that exist today (*colored rings*)

**Outer ring:** Estimated proportion of all species*

**Inner ring:** Proportion of the groups named to date

**Each black line represents at least 500 descendant species**

**Dark lines:** Many species have been genetically sequenced

**Light lines:** Few species have been genetically sequenced

Arthropods (insects, arachnids, crustaceans)
Nematodes (roundworms)
Lophotrochozoa (mollusks, segmented worms, brachiopods)
Deuterostomia (vertebrates, sea stars and urchins, certain worms)
Early diverging metazoa (cnidaria, comb jellies, sponges)
Fungi
Plants
Early diverging archaeplastida (green algae, red algae)
SARs† (diatoms, amoeboids, brown algae)
Bacteria
Archaea (single-celled micro-organisms that tolerate extreme conditions)

Scientists have identified about one million arthropods (*tan*); millions more remain undescribed

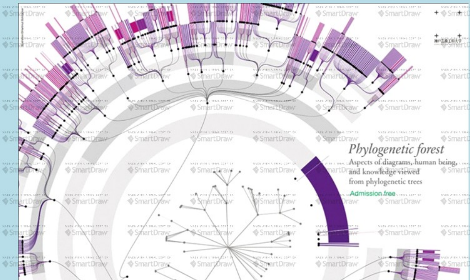
Experts expect that most new species to be discovered will be bacteria (*orange*) and archaea (*magenta*)

The first single-celled organism from which all life has descended arose 3.5 billion years ago

Many deuterostomia (*gold*) and plants (*dark green*) are already genetically sequenced (*dark lines*) because they are culturally or economically important (such as humans!)

*Estimates vary widely; values shown are averages from multiple sources

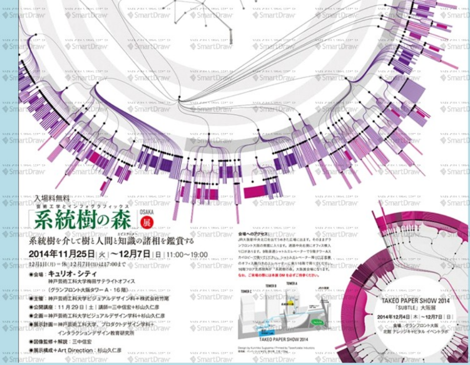
†Stramenopiles, alveolates, *Rhizaria*



## *Phylogenetic forest*

Aspects of diagrams, human being, and knowledge viewed from phylogenetic trees

Admission free



入場料無料

芸術工学とインフォグラフィックス

# 「系統樹の森」OSAKA 展

系統樹を介して樹と人間と知識（エピステーメー）の諸相を鑑賞する

2014年11月25日｜火｜〜12月7日｜日｜11:00〜19:00

12月1日(月)＝休 12月7日(日)は17:00まで

- ●会場：キュリオ-シティ
  神戸芸術工科大学梅田サテライトオフィス
  （グランフロント大阪タワーA・16階）
- ●主催：神戸芸術工科大学ビジュアルデザイン科＋株式会社竹尾
- ●公開講座：11月29日｜土｜講師＝三中信宏＋杉山久仁彦
- ●企画＝神戸芸術工科大学ビジュアルデザイン学科＋杉山久仁彦
- ●展示計画＝神戸芸術工科大学、プロダクトデザイン学科＋
  インタラクションデザイン教育研究所
- ●図像監修＋解説：三中信宏
- ●展示構成＋Art Direction：杉山久仁彦

会場へのアクセス：

JR大阪駅中央北口を出てうめきた広場に出ます。そのままグランフロント大阪の南館に入ります。通路中央右側にオフィス棟入り口があります。9階直通シャトルエレベーターで9階タワーAスカイロビーで降りてください。シャトルエレベーター降り口正面のオフィス棟行きのエレベーターに乗り16階で降りてください。16階フロア北西側奥が「系統樹の森」大阪展会場になります。

なお、ご来場の際には本展 DM を必ずご持参ください。

TOWER C
TOWER B
TOWER A
TAKEO PAPER SHOW 2014

TAKEO PAPER SHOW 2014
「SUBTLE」大阪展
2014年12月4日｜木｜〜12月7日｜日｜
会場：グランフロント大阪
北館 ナレッジキャピタル イベントラボ

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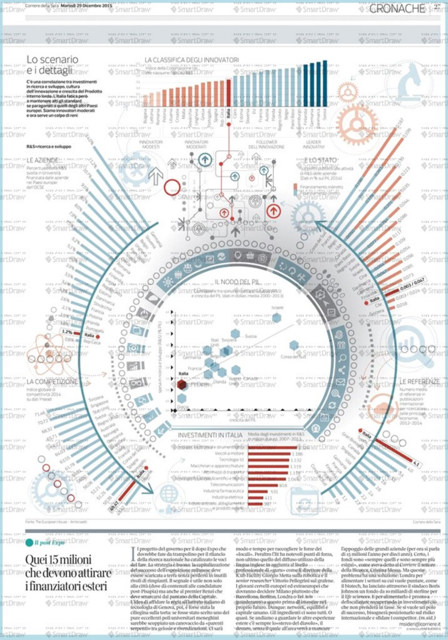

## Lo scenario e i dettagli

C'è una correlazione tra investimenti in ricerca e sviluppo, cultura dell'innovazione e crescita del Prodotto interno lordo. L'Italia fatica però a mantenere alti gli standard se paragonati a quelli degli altri Paesi europei. Siamo innovatori moderati e ora serve un colpo di reni

R&S=ricerca e sviluppo

LA CLASSIFICA DEGLI INNOVATORI
Indice della Commissione Ue che riassume i fattori R&S
Bulgaria
Lettonia
Romania
Polonia
Lituania
Croazia
Malta
Slovacchia
Ungheria
Grecia
Portogallo
Spagna
Rep. Ceca
Italia
Cipro
Estonia
Slovenia
EU
Francia
Austria
Irlanda
Regno Unito
Belgio
Paesi Bassi
Lussemburgo
Finlandia
Germania
Danimarca
Svezia
INNOVATORI MODESTI
INNOVATORI MODERATI
FOLLOWER DELL'INNOVAZIONE
LEADER INNOVATIVI
LE AZIENDE...
Percentuale della R&S svolta in Università finanziata dalle aziende nei Paesi europei dell'OCSE
1,2%
Italia
0,8%
Rep Ceca
...E LO STATO
Supporto pubblico alle attività di R&S delle aziende (Dati in % sul Pil, 2014)
Finanziamento indiretto
Finanziamento diretto
IL NODO DEL PIL
Correlazione tra spesa in ricerca e sviluppo (R&S) e crescita del PIL (dati in dollari, media 2000-2013)
Spesa in ricerca e sviluppo (R&S) (% PIL)
crescita del PIL
Israele
Svezia
Stati Uniti
Svizzera
Corea del Sud
Germania
Belgio
Francia
Italia
Irlanda
Regno Unito
Canada
Grecia
LA COMPETIZIONE
Indice globale di competitività 2014 su dati Insead
Svizzera
Singapore
Stati Uniti
Svezia
Regno Unito
71,46
70,72
68,32
65,71
64,03
63,55
61,78
56,06
52,21
51,25
50,38
49,47
LE REFERENZE
Numero medio di referenze in pubblicazioni internazionali per ricercatore nelle principali economie, 2012-2014
Italia
4,1
4,0
3,4
2,6
2,2
1,1
0,9
INVESTIMENTI IN ITALIA
Media degli investimenti in R&S in milioni di euro, 2007-2013
Veicoli a motore 1.186
Tecnologie Ict 1.132
Macchinari e apparecchiature 1.119
Telecomunicazioni 818
Industria farmaceutica 531
Industria elettrica 411

Fonte: The European House - Ambrosetti

Corriere della Sera

● *Il post Expo*

## Quei 15 milioni che devono attirare i finanziatori esteri

Il progetto del governo per il dopo Expo che dovrebbe fare da trampolino per il rilancio della ricerca nazionale ha catalizzato le voci del fare. La strategia è buona: la capitalizzazione del successo dell'esposizione milanese deve essere scaricata a terra senza perdersi in inutili rivoli di rimpianti. Il segnale è utile non solo alla città (dove dà contenuti alle candidature post-Pisapia) ma anche al premier Renzi che deve smarcarsi dal pantano della Capitale. L'idea di affidare la regia all'Istituto italiano di tecnologia di Genova, poi, è forse stata la ciliegina sulla torta: se fosse stato scelto uno dei pure eccellenti poli universitari meneghini sarebbe scoppiato un canovaccio da «parenti serpenti» tra gelosie e rivendicazioni. Ci sarà modo e tempo per raccogliere le forze dei «locali». Peraltro l'Iit ha notevoli punti di forza, non ultimo quello del diffuso utilizzo della lingua inglese in aggiunta al livello professionale di «guru» come il direttore della iCub Facility Giorgio Metta sulla robotica e il *senior researcher* Vittorio Pellegrini sul grafene. I giovani cervelli europei ed extraeuropei che dovranno decidere Milano piuttosto che Barcellona, Berlino, Londra o Tel Aviv guarderanno a questo prima di investire nel proprio futuro. Dunque: network, equilibri e capitale umano. Gli ingredienti ci sono tutti. O quasi. Se andiamo a guardare le altre esperienze estere c'è sempre lo «sterco del diavolo», il denaro, senza il quale all'area verrà a mancare l'appoggio delle grandi aziende (per ora si parla di 15 milioni l'anno per dieci anni). Certo, i fondi sono «sempre quelli e sono sempre più esigui», come aveva detto al *Corriere* il rettore della Bicocca, Cristina Messa. Ma questo problema ha una soluzione: Londra per alimentare i settori su cui vuole puntare, come il biotech, ha lanciato attraverso il sindaco Boris Johnson un fondo da 10 miliardi di sterline per il *life sciences*. E per alimentarlo è pronta a defiscalizzare recuperando in investimenti ciò che non prenderà in tasse. Se si vuole un polo di successo, bisognerà posizionarlo sul risiko internazionale e sfidare i competitor. *(m.sid.)*

msideri@corriere.it

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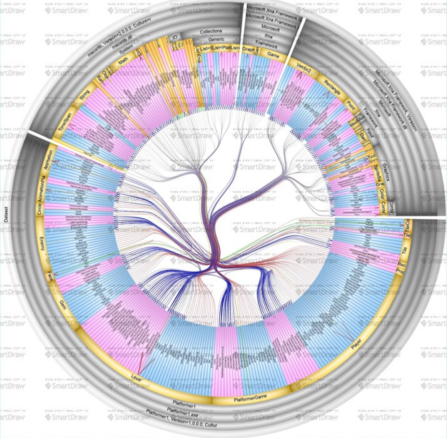
mscorlib, Version=2.0.0.0, Culture=
mscorlib.dll
System
Collections
Generic
IO
List<List<PlatList<
Math
String
TimeSpan
Animation
Circle
AnimationPl
Dataset
Enemy
Face
Gem
Level
Platformer1
Platformer1.exe
Platformer1, Version=1.0.0.0, Cultur
PlatformerGame
Player
Tile
Rectangle
Point
Vector2
Game
Framework
Graph
Microsoft.Xna.Framework.G
Microsoft.Xna.Framework
Microsoft
Xna
Microsoft.Xna.Framework, Version
Microsoft.Xna.Framework.dll
Input
Graphics
SpriteB
Color
Conte

| SUN TZU'S PRINCIPLES OF GLOBAL SOCIOECONOMIC MARKETING WARFARE | | | | | | |
|---|---|---|---|---|---|---|
| | **Fundamental:** Basic or Physical, Characteristics-What, How, Where, or Who | **Values:** Motivating Beliefs, Global Desires, Ethics, Moral Matters | **Measures:** Objectives (Criteria, Merit and Worth Factors), Goals (How Much When, Rates, Performance Specifications) | **Control:** How to Evaluate and Modify Element or System as it Operates | **Interface:** Relation of Dimensions to other Systems or Elements | **Future:** Planned Changes and Needs for all Dimensions |
| **Purpose:** mission, aim, need, primary concern, focus | B IV/IV | B I/XI | B III/X | B I/IV | B III/III&XI | B III/VII |
| **Inputs:** people, things, information to start the sequence | B III/I | B III/V | B III/XIV | B II/X | B III/XVIII | B I&II/V& |
| **Outputs:** desired (achieves purpose) and undesired outcomes from sequence | B IV/V | B IV/VIII | B IV/VI | B IV/II | B IV/VII | B II/VI |
| **Sequence:** steps for processing inputs, flow, layout, unit operations | B II/IX | B III/VI | B III/VIII | B III/I | B II/XII | B I/I |
| **Environment:** physical & attitudinal, organization, setting, etc | B I/III | B II/XI | B I/VI | B II/VII | B III/XV | B II/II |
| **Human Agents:** skills, personnel, rewards, responsibilities, etc. | B I/VI | B III/XII | B III/III | B III/XVI | B I/IX | B II/VIII |
| **Physical Catalysts:** equipment, facilities, etc. | B III/IV | B III/III | B III/V | B I/VII | B I/VIII | B III/XVII |
| **Information Aids:** books, instructions, etc. | B III/XIII | B I/XII | B I/V | B II/V | B III/IX | B I/II |

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## SUN TZU'S PRINCIPLES OF GLOBAL SOCIOECONOMIC MARKETING WARFARE

| | Fundamental: Basic or Physical, Characteristics-What, How, Where, or Who | Values: Motivating Beliefs, Global Desires, Ethics, Moral Matters | Measures: Objectives (Criteria, Merit and Worth Factors), Goals (How Much When, Rates, Performance Specifications) | Control: How to Evaluate and Modify Element or System as it Operates | Interface: Relation of Dimensions to other Systems or Elements | Future: Planned Changes and Needs for all Dimensions |
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| Outputs: desired (achieves purpose) and undesired outcomes from sequence | B IV/V | B IV/III | B IV/VI | B IV/II | B IV/VII | B II/VI |
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| Environment: physical & attitudinal, organization, setting, etc | B I/III | B II/XI | B I/VI | B II/VII | B III/XV | B III/I |
| Human Agents: skills, personnel, rewards, responsibilities, etc. | B IV/I | B III/XII | B II/III | B III/XVI | B I/IX | B II/VIII |
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| Information Aids: books, instructions, etc. | B III/XIII | B I/XII | B I/V | B II/V | B III/IX | B I/II |

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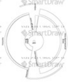
density design-LAB

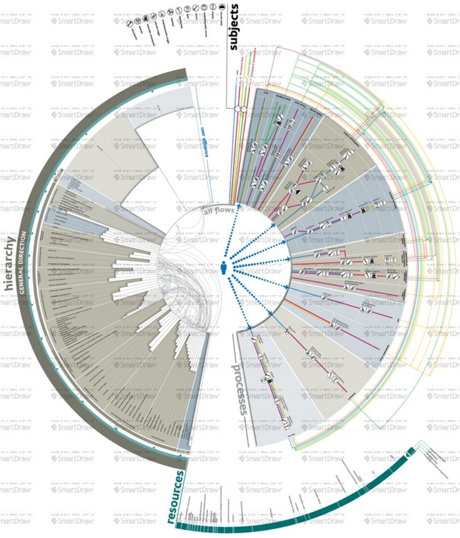
# Hospital System

Marco Barbieri
Chiara Benedetti
Valentina Ceruti
Manuela Ciancilla
Sara Deambrosis
Eloisa Paola Fontana
Gabriele Musella



The hospital: a system suitably created for the care and the reinstatement of the user, fundamental subject about which trials are divided to more or less visibly and flows of information, materials, data and people. Therefore, the map is totally centred on the users of the system, from which some vectors - corresponding to the direct access of the users to the sectors of the structure - are diffused: the reading sense is oriented towards right this way, where the processes and actors semicircle is placed; as a matter of fact, inside it are represented the processes and the operating subjects taken back inside the structure. The different nature of the exchanges is pointed out by the different colouring of the lines; following the radial disposition, at the end of every process you reach the area dedicated to the representation of communications and of exchanges between different sectors of the hospital.

At a second level, it has been placed a second semicircle, a less specific representation of the system, that therefore shows - always with radial reading sense, consistently his corresponding right - in first place the flows between the departments, visible exchanges from the user and as easily deducible of type "many to many"; in second place a couple of data concerning every department: the height of the columns corresponds to the flow of users, while the width of them shows the amount of resources absorbed by the specific department. Once finished this sense of reading, taking into consideration a vision more of set of this area, it is visible the hierarchic organization of the system, where beneath the general direction, which is resources reach and he is responsible for distribution of them, appear administrative, sanitary and management directions, disposed according to their relative competence areas.

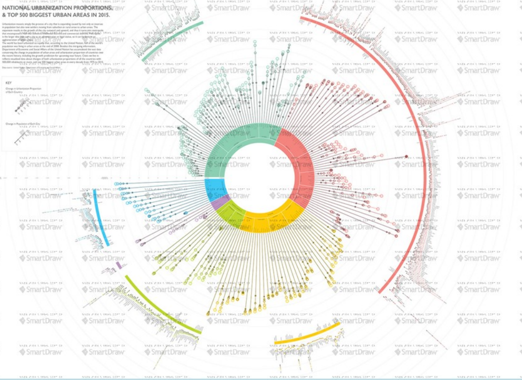

subjects
user influence
all flows
hierarchy
GENERAL DIRECTION
processes
resources

Quality Hospital

---

# CITIES WE LIVE IN

## NATIONAL URBANIZATION PROPORTIONS, & TOP 500 BIGGEST URBAN AREAS IN 2015.


KEY
Change in Urbanization Proportion of Each Country
Change in Population of Each City