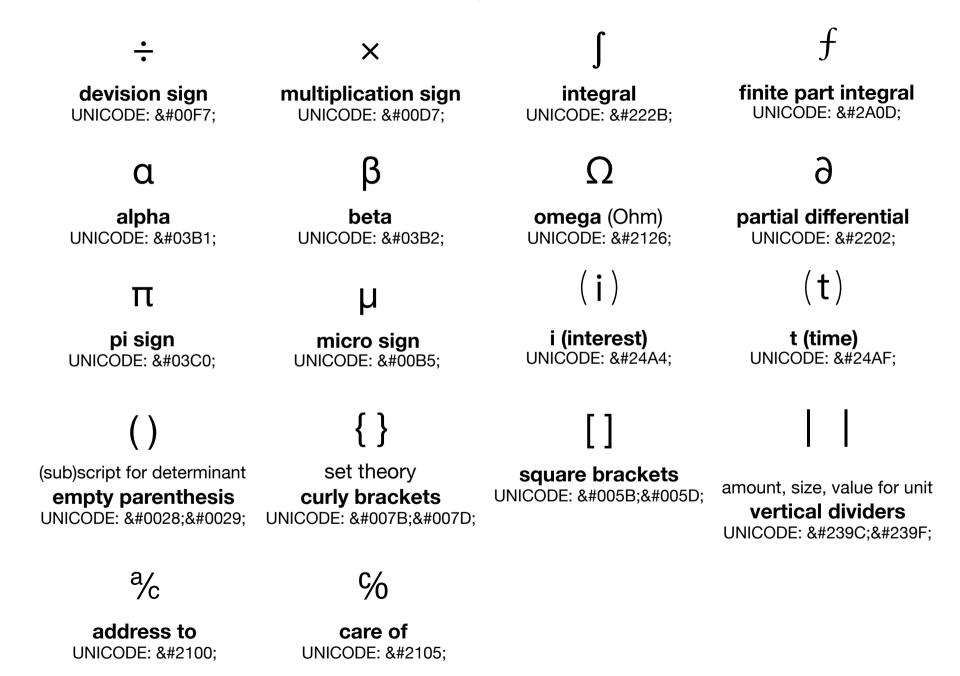
EE MathDIY

- * Pemocracy (D) and Internet (I) are Yours (Y) stands for a macroeconomic value system
- * MathDIY is a simple mathematical notation for describing business and political decision making, capturing its motivation, tensions, processes and context
- * MathDIY makes recommendations and suggestions for how determinants macroeconomic and microeconomic can be incorporated into an Account System (IAS, NAS) or Balanced Scorecard (BSC)
- MathDIY includes cost accounting and calculation (e.g. Revenues = Sales Costs etc.)
- * its scope extends inevitably to people, nature, democracy and the Internet without Frontiers (IwF), which are to be embedded as variables next to other units
- new determinants assimilate old doctrines, example given:
 [Y (Yield) = C (Consumption) + S (Save); Y = C + I (Investment); 1 because Yield (Y) is thus influenced by D + I = Y (Yours) and by constraints (interaction, growth, stability, sustainability, resources, culture)
- * MathDIY finalizes and reflects the balance of Fair External Trade Agreement (FETA) and fundamentally changes the requirements for Diplomatic International Relations (DIR)
- determinants need a well-formed Syntax or Document Type Definition (e.g. MathML, SVG text)
- first, let's look at a small introduction to set theory and markup language

e	3	\in	∉
Estimated Symbol UNICODE: ÔE;	Euler Constant UNICODE: ࠻	Element of UNICODE: ࢠ	not Element of UNICODE: ࢡ
^	V	П	Σ
Logical AND UNICODE: ࢳ	Logical OR UNICODE: ࢴ	n-ary PRODUKT UNICODE: ÜF;</th><th>n-ary SUMMATION UNICODE: ÜF;</th></tr><tr><th><</th><th>></th><th>≤</th><th>></th></tr><tr><th>less than UNICODE: C;</th><th>greater than UNICODE: E;</th><th>less than or equal to UNICODE: ࣘ</th><th>greater than UNICODE: ࣙ</th></tr><tr><th>\subset</th><th>)</th><th>\subseteq</th><th>\supseteq</th></tr><tr><th>Subset of UNICODE: ࣪</th><th>Superset of UNICODE: ࣫</th><th>Subset of or equal to UNICODE: ࣮</th><th>Superset of UNICODE: ࣯</th></tr><tr><th>•••</th><th>••</th><th>•</th><th>• •</th></tr><tr><th>therefore UNICODE: ࢺ</th><th>because UNICODE: ࢻ</th><th>ratio UNICODE: ࢼ</th><th>proportion UNICODE: ࢽ</th></tr></tbody></table>	



(N)

 $(A) = (A)_1 + (A)_2$

D (Democracy) UNICODE: F113;

N (Nature) UNICODE: F11D:

A (Area) built up + undeveloped UNICODE: F110;

Y (Yours) UNICODE: F128;

(P)

 $^{\circ}(F) \leq 360^{\circ}$

°(C) ≤100°

 $Y = (D) \times [(N) - (A)]$

P (Product) factor of production UNICODE: F114:

Level of Freedom foreign trade UNICODE: &00B0; F115;

Level of Constitution domestic economy UNICODE: &00B0; F121;

Yield = Yours (Y) factor of ecosystem

C (Capital)

F4F

G (Ground) factor of production UNICODE: F116;

factor of production UNICODE: F112;

factor of production UNICODE: F126;

W (Work)

Fridays for Future

H (Household)

E (Enterprise)

V4V

V for Vendetta

S (State) UNICODE: F114;

UNICODE: F117;

 $\mathbf{H}_{(\mathbf{R})}$

UNICODE: F114;

H(C) > H(B)

H(C)

Human Resources Human Capital

H(O) = H(D)

Full Employment offers = demands

unexploited **Human Development**

 Y_{1st}

Y_{2nd}

lγ

 D_{Y}

Yours PETERMINANT FOR QUALITY

Yield **PETERMINANT FOR QUANTITY**

Internet **ELEMENT OF YOURS**

Democracy **ELEMENT OF YOURS**

 Y_{T}

 $Y_{(i)} = Y_T - Y_{1,2}$

lg

In

Total Yield PETERMINANT FOR QUANTITY

Interest Yield PETERMINANT FOR QUALITY **Gross Investment ELEMENT OF INVESTMENT**

Net Investment ELEMENT OF INVESTMENT

 $V_Y = Y_{1st} \ge Y_{2nd}$ $I_t = I_g - I_n$

(t)

lQ

Value for Citizen PETERMINANT FOR QUALITY **VAT** on Investment **ELEMENT OF INVESTMENT**

PETERMINANT FOR QUALITY

Amortization Duration Return on Investment PETERMINANT FOR QUALITY

 $V_Y = Y_{1st} < Y_{2nd}$

 $S = Y_{2nd} - C$ $I = Y_{2nd} - C$

Value for State **PETERMINANT FOR QUANTITY**

Consumption ELEMENT OF 2ND YIELD

 $S = I_n$

Save **ELEMENT OF 2ND YIELD**

Investment ELEMENT OF 2ND YIELD

$$I_{(i)} = S_{(Y)}$$

Balanced Budget

IN A CLOSED ECONOMY

(WITHOUT FOREIGN TRADE)

WHEREBY i = INTEREST

Identity Equation economy without

 $Y_{2nd} = C + S \quad Y_{2nd} = C + I_n$

foreign trade

IS-function 1 APPROACH TO FORMATION **IS-function 2** APPROACH TO USE

$$S = Y - C - G$$

$$Y = C + I + OC$$

$$S = Y - C - G$$
 $Y = C + I + OC$ $Y_1 + Im_1 = C_2 + I_2 + Ex_2$

$$N_x = Ex - Im$$

Economic Savings

$$S = I + N_X$$

$$Y_2 - Y_1 > 0$$

Identity Equation open economy with foreign trade

Government spending

Depreciation

YIELD creation

 R_m

 $R_{s,a}$

 R_p

 R_{a}

row materials

resources by supplies/additives

resources by plant materials

rare materials WITH PARTICULARLY HIGH REQUIREMENTS OR RISKS

 R_e

resources by excipients $R_{x,y,z}$

recyclable, renewable, refurbished resources

°P

level of the PRICE

 $^{\circ}P = [(M) \times CS_{M}] \div Y$

level of the PRICE

 $^{\circ}P_{2}-^{\circ}P_{1}>0$

Inflation

(M)

MONEY supply UNICODE: F11C:

 $(M)_2 - (M)_1 > 0$

MONEY creation

Cs(M)

CIRCULATION SPEED

 $(M)_2 - (M)_1 >$

 $[Y_2-Y_1]-[Cs_2-Cs_1]_{M}$

Inflation Equation

SHOWING THE CHANGE RATES OF THE REPORTING PERIODS

 $Y \times {}^{\circ}P = (M) \times Cs_{(M)}$

Quantity Equation

 $[Cs_2-Cs_1]_{(M)} \geq 0$

CIRCULATION SPEED

INCREASES OR REMAINS CONSTANT

 $7S_{(\text{E})}$

12S(E)

7-S-Modell BY MCKINSEY
STRATEGY, ORGANIZATIONAL
STRUCTURE, SYSTEMS AND ITS
PROCESSES, CULTURAL STYLE,
STAFF, SKILLS, SUPERORDINATE
GOALS WHEREBY (E) = ENTERPRISE

12-S-Model (Molecule) BY JENS 1. HINRICHS
SUPPLY CHAINS (has effects on STRATEGY), STORAGE OF ENERGY (reserves,

savings, surplus, renewables), ORGANIZATIONAL SEGMENTATION AND CHANGE (business units and assets, SWOT), SLACKS (Project management and planning), SYNERGIES (opt-in/opt-out; Make or buy, USP, workflow), STACKS (foreign expertise vs your experiences), SHAREHOLDERS (also investors, suffrages), INTERCULTURAL SYSTEMS (obstacles, environment, markets, fiscal), STYLE AND STACK (foreign expertise vs given experiences), SOCIAL BENEFITS (Image, integrity, absolute economics, exploration), STAKEHOLDERS (also public interests, Lobbyism and policies), OWN SKILLS AND CREATIVE STAFF (talent stack, human capital, S.W.A.T., experiences, patents), SHARE-ABILITY (evaluable usage, participation, performance, scales), SUPERSET/SUBSET OF ... OR EQUAL TO SUPERORDINATE GOALS (profiteering, social engineering, utility maximization, lobbyism, market leadership, branding, cultural of concealment)

WHEREBY (E) = ENTERPRISE

 $|iP^{2}(Y)|$

E://mcn

R://Ω

iPotency
VALUE FOR UNIT OF A USER IN A PATING
PORTAL OR MATCHING PROCESS

WHEREBY (Y) = YOURS

Expansion of the Internet INTERACTION THEORY OF RELATIVITY

BY JENS T. HINRICHS

DERIVED MEASURE OF EVOLUTION; m = MASS OF EXPRESSION MULTIPLIED BY c = CONTENT EXPOTENTIATED WITH n = UNKNOWNS WHEREBY E:// = EXPANSION OF INTERNET Resistance of the Internet INTERACTION THEORY OF COUNTERACTION BY JENS T. HINRICHS

DERIVED MEASURE OF ACCEPTANCE; R:// = RESISTANCE OF INTERNET, Ω = USER-GENERATED-CONTENT (UGC) AND OTHER EXTERNAL MEDIA (OEM) \div VALUE FOR TOTAL UNIT OF INTERACTION (SHARE, LIKES, COMMENTS, FOLLOWERS ETC.) WHEREBY (R₂ - R₁) > R₁ (ACCEPTANCE),

 $(R_2 - R_1) > R_1 (ACCEPTANCE)$ $(R_2 - R_1) < R_1 (RESISTANCE)$

 $7Ps + \sum P_x$

POLITICS-MIX
BY JENS 1. HINKICHS
PRODUCTION. PRICING.

PROMOTION, PLACEMENT,
PHYSICAL EVIDENCE,
PEOPLE, PROCESS
(MARKETING-MIX BY JOBBER)
+ PARTNERS, POLITICAL
OBSTACLES, PLC,
PROJECTION, PLANNING,
PLAYER AND PARADIGM
SHIFT, PARTICIPATION,

PERFORMANCE ETC.

 $4Pm + \sum P_{y}$

Player-Model

BY JENS 1. HINRICHS
MOVER, BYSTANDER,
OPPOSER, FOLLOWER

(4-PLAYER-MODEL BY KANTOR)

+ PROCLAIMER, OBSERVER, SPECTATOR, GAWPER, INFLUENCER, PARTNERS STEREOTYPES, STAKEHOLDERS (ALSO CONTRIBUTERS, COUNTERFEITS) ETC. $4S \in 7Ps + \sum P_{x,y}$

Strategy-Model

BY JENS T. HINRICHS

STRENGTH, WEAKNESS, OPPORTUNITIES, THREATS (S.W.O.T.-ANALYSIS)

ARE ELEMENTS OF POLITICS-MIX

 $4Pm+\sum P_{x,y} \in 4F \times 3F$

Forces-Model

BY JENS T. HINRICHS

PLAYER-MODEL IS ELEMENT OF (OR DRIVEN BY) **S.W.A.T.-ANALYSIS**:

SKILLS, WILLINGNESS TO

CHANGE SOMETHING,

ACTION TO BE TAKEN, TEAM OR TECHNIQUE (4F)

PAIRED WITH FAITH OR

FAIRNESS, FAMILY AND

FREEDOM (3F)

OR DRIVEN BY FRIDAYS

FOR FUTURE **(F4F)** OR

SOMETIMES MULTIPLIED

WITH FINANCIAL RISK AND

CROWD FUNDING (2F)

 $|PERFORM| \in 7Ps+\sum Px,y$

Value for PERFORM-factors

PURPOSE AND VALUES,
EMPOWERMENT, RELATIONSHIP AND
COMMUNICATION, FLEXIBILITY,
OPTIMIZATIONS OF PRODUCTIVITY,
RECOGNITION AND APPRECIATION,
MORAL AND MOTIVATION
(P.E.R..F.O.R.M.-ANALYSIS)
ARE ELEMENTS OF POLITICS-MIX

 $|PEST| + |LE| \in 7Ps + \sum Px, y$

Value for PEST-factors

POLITICAL DECISION-MAKING, ECONOMIC ECOSYSTEM, SOCIOCULTURAL VALUES, TECHNICITY + LEGAL LOOPHOLES, ENVIRONMENTAL CONSCIOUSNESS (P.E.S.T.L.E.-ANALYSIS)

ARE ELEMENTS OF POLITICS-MIX

|PERSONAS ARK|

Value for target audience or potential customer

CUSTOMER PROTOTYPING,
PREFERENCES, RESEARCH,
BUYING BEHAVIOR, PRICE
SENSITIVITY ETC.
ARE ELEMENTS OF
POLITICS-MIX

5F(E)

5F(S)

5F(H)

Enterprise (E) by 5 Forces

(5-FORCES-MODELL BY PORTER)

BARGAINING POWER OF THE SUPPLIERS

(low presence of substitutes, high participation in the value chain, low risk of backward integration), BARGAINING POWER OF CUSTOMERS

(institutional customer concentration, bulk goods/orders at low prices, high presence of substitutes, high risk of backward integration),

THREAT OF NEW COMPETITORS AND STARTUPS

(market entry/market exit barriers, Economies of scales, high gross yields are associated with high debts),

THREAT OF SUBSTITUTES OR PATENT TROLLS

(physical and immaterial competitors), COMPETITIVE INTENSITY OF THE INDUSTRY OR BRANCH

(driven by product innovation or fundamental changes of customer buying behavior, protectionism of key industries by nationalization of companies, common ownership, social engineering)

State (S) by 5 Forces

(5-FORCES-MODELL BY JENS T. HINRICHS) FORTUNE MEANS YIELD GROWTH (that keep sustainability and sovereignty in mind). POLITICIANS DRIVEN BY FORTUNE (make decisions that quarantee them political survival) FAME GROWS OUT PRESTIGE THAT CAN BE SEEN (driven by knowledge and lobbyism that are hidden under the surface). PEOPLES DRIVEN BY FAMOUS WORDS (make choices that are approved to give politicians more audience, not to gain own attention for themselves). FREEDOM MEANS THAT YIELD GROWTH WEIGHS MORE THAN INDIVIDUAL FAILURE (driven by less responsibility of the decision makers, but always depends on the misconduct of others or was dependent on other circumstances, e.g. Terrorism, Global Climate, Financial Crisis)

Household (H) by 5 Forces (5-FORCES-MODELL BY JENS T. HINRICHS)

FORTUNE MEANS INVESTMENT IN
PEOPLES AND THEIR FAMILIES AND
FRATERNITY (that helps to keep selfdetermination and self-realization to
achieve a stable income). PEOPLES
DRIVEN BY FORTUNE WRESTED
FROM A SUSTAINABLE
ENVIRONMENT (make decisions that
guarantee them recognition and
confirmation and a big standard of living)
FAME MEANS PARTICIPATION FROM
FELLOWSHIP AND IDENTIFYING WITH

FELLOWSHIP AND IDENTIFYING WITH
FAME MONSTERS AND OTHER
INFLUENCERS (driven by status symbols,
individual taste and fragile principles and
rights). PEOPLES INFLUENCED BY
ALGORITHMS FROM A COLLECTIVE
THAT REPLACES INDIVIDUAL NEEDS
(make decisions that are designed to

FREEDOM NEEDS A HIGH DEGREE
OF DEMOCRACY AND AN INTERNET
WITHOUT FRONTIERS (shaken by a
single person or a single event to touch
many hearts or to set a whole crowd in
motion, e.g. Edward Snowden, Cum-Ex-Files,
Fridays for Future)

generate more personal data and business

traffic for the benefit of others).

$$\circ$$
(L) \equiv

°(**L**)≋

 $D_x = A_{Ex} - H_{Im}$

 $D_{x2}-D_{x1} > 0$

level of media literacy (satisfaction)
UNICODE:

PF11B;ࣕ

level of currency liquidity (stability) UNICODE: PF11B;àB; Democracy Deficit
EXPORT OF ARMAMENTS
MINUS IMPORT OF
HUMANITY WHEREBY $D_{X2}-D_{X1} < 0$

Democracy Benefit

$$Y_{(E)} = R_g - C_g$$

$$C_{(E)} = C_v + C_f$$

$$C_{(Y)} = C_V + C_f$$

Yield of Enterprise (E)
GROSS REVENUES – GROSS COSTS

Cost of Enterprise
VARIABLE COSTS + FIXED COSTS

Yours of Consumption (Y)

VARIABLE COSTS (electricity, gas etc.)

+ FIXED COSTS (rent, compulsory fee, basic fees, tax prepayment, progress payments) WHEREBY STEP-FIXED OR VARIABLE-FIXED COST INCLUDED IN

BOTH (subsequent payments, tariffication by volumina)

$$Y_{(S)} + C_{(S)} = q[(E)_{T1} + (H)_{T1}] - p[(E)_{T2} + (H)_{T2}]$$

Yield of State (S)

TAX INCOMES – TRANSFER BENEFITS WHEREBY q = INPUT, p = OUTPUT, T_1 = TAX INCOMES, T_2 = TRANSFER BENEFITS AND $\textbf{C}_{(S)}$ = COST/CONSUMPTION OF STATE (raising, lending, redemption of credits or paying interests or international contribution, tax refund, salary to officials)

$$C_{(E)} \div x = C_f \div x + c_v$$

cost on average

WHEREBY $C_V = q = INPUT PRICE$ (PRODUCTION) PER UNIT

$$x^* = C_f \div (px - c_v)$$

Break Even

WHEREBY **px** = OUTPUT PRICE (RETAIL PRICE) PER UNIT

$$f(x) => y = mx + n$$

general form of linear equation

$$c = ax + bx$$

coordinate form of linear equation

WHEREBY x_0 , $y_0 > 0$

$$y = ax^2 + bx + c$$

general form of quadratic function

WHEREBY f(x) => y

$$m = (y_2-y_1) \div (x_2-x_1)$$

difference quotient of linear equation

$$y_1 = -(y_0 \div x_0)x_1 + y_0$$

intercept form of linear equation WHEREBY yo = n

$$y = ax^3 + bx^2 + cx + d$$

general form of polynomial function third degree

WHEREBY f(x) => y

$$n = [(y_1 \times x_2) - (y_2 \times x_1)] \div (x_2 - x_1)$$

point of intersection of linear equation

$$y = ax^4 + bx^3 + cx^2 + dx + e$$

general form of polynomial function fourth degree

WHEREBY f(x) => y