

CYBERSECURITY ÎN UE : TOT SE JOACA **ACUM (2018-2020) !**

ROMÂNIA ARE TOATE ATUURI

**PENTRU A DEVINI MOTORUL
MACRO-REGIONAL n. 1**

SI (PREA) MULTE 'OBICEIURI'

**DIN VINA CARUIA POATE DEVENI
O TARA STERSA DIN HARTA ZONEI**

Prof. Univ. HDR Dr. Laurent Chrzanovski

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CONFERINȚA
BURSA
ZIARUL OAMENILOR DE AFACERI

în parteneriat cu

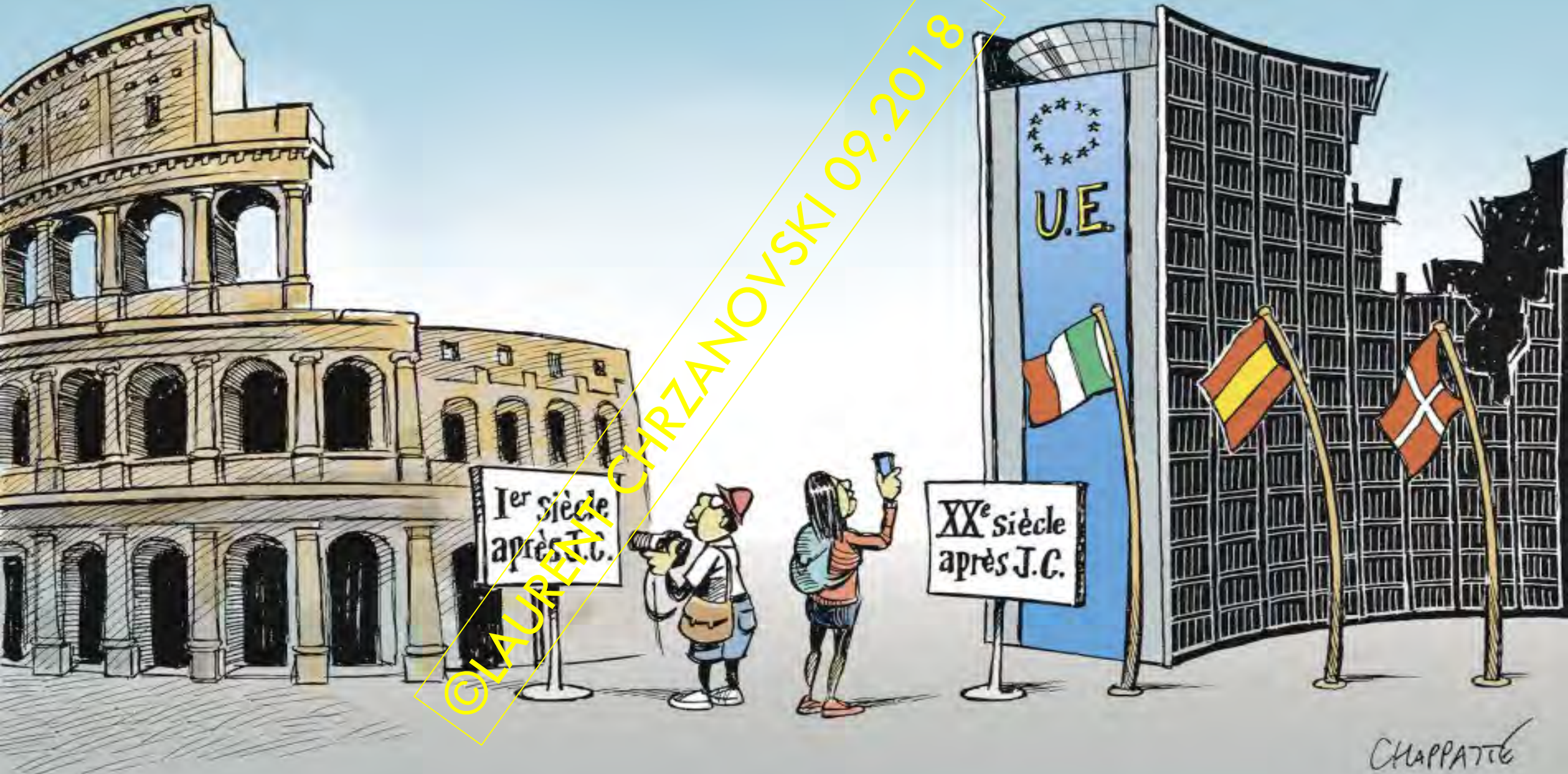
CAMERA DE COMERT SI INDUSTRIE
ROMANIA
SĂRBĂTORIM ÎMPREUNĂ
1918-2018

Strategia de dezvoltare a României

EDIȚIA A IV-A | CCIR

25 septembrie 2018

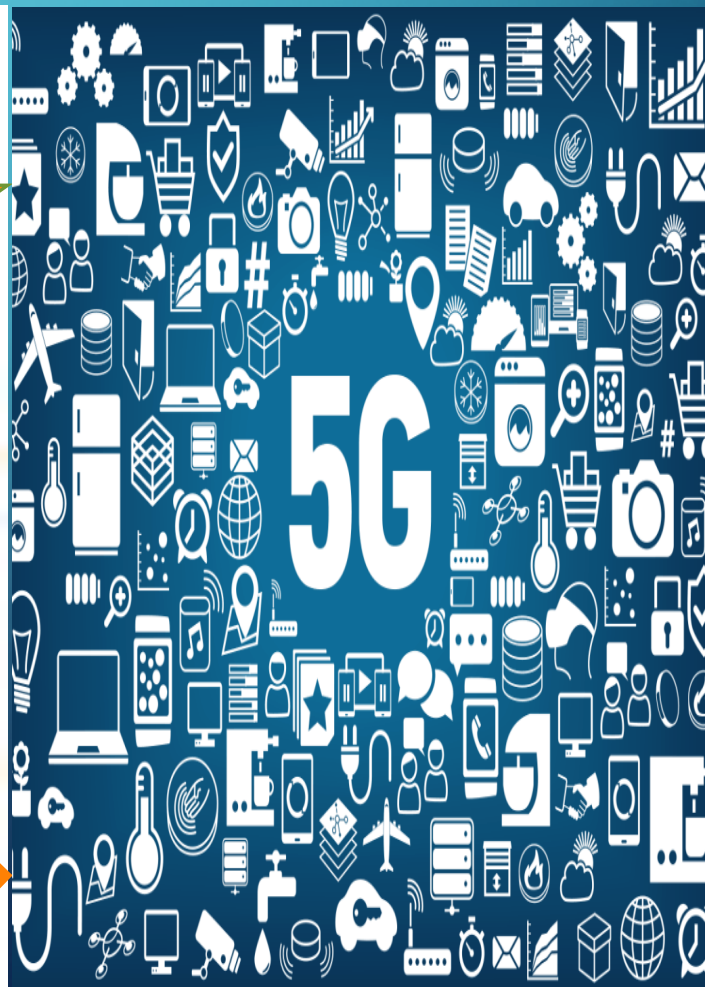
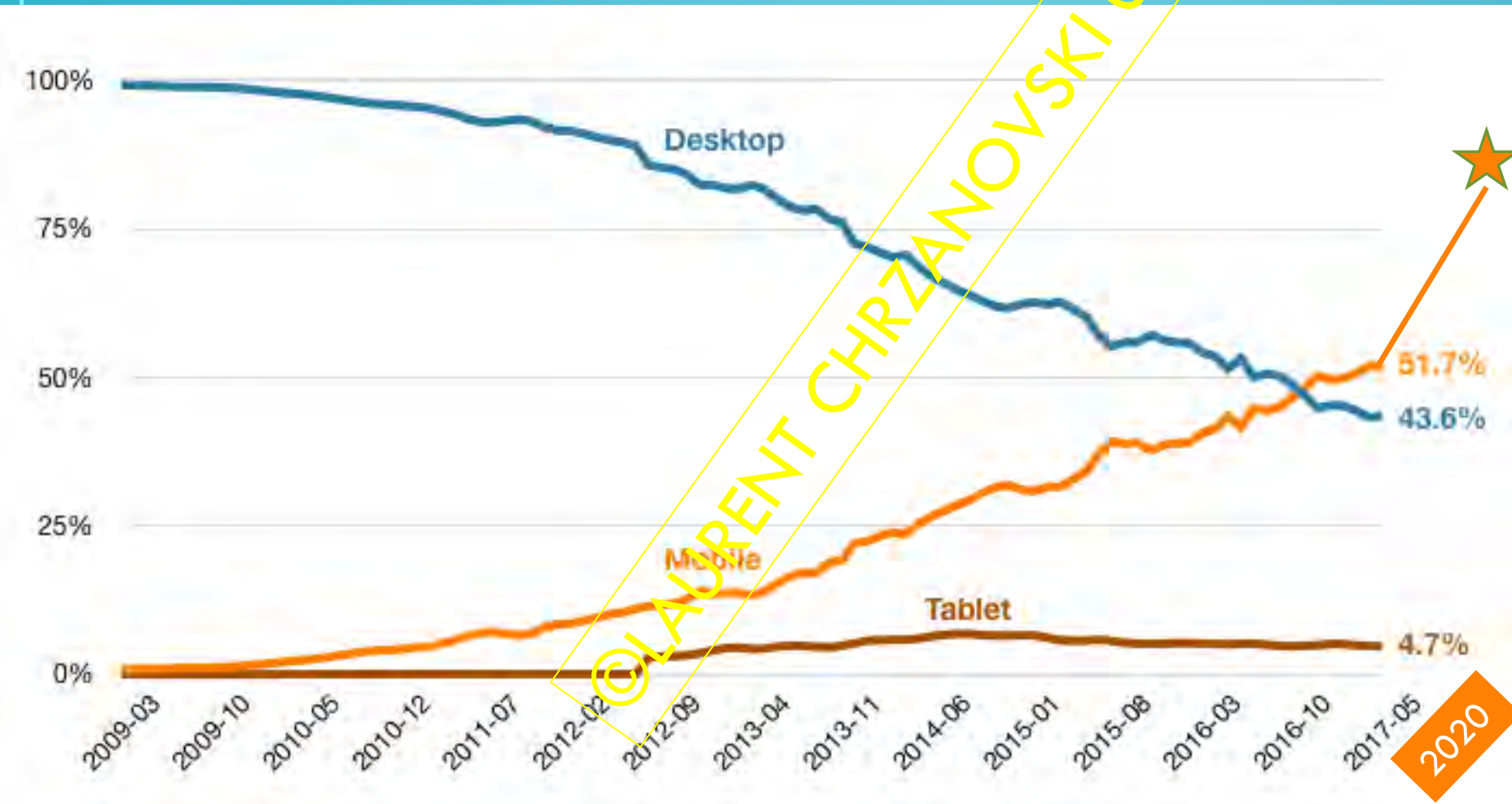
U.E. ACUMA, ÎNTRE BREXIT, VISEGRAD SI PROBLEME ENDEMICHE



5G : CÂND TOATE PARADIGME ALE SECURITATII SE VOR SCHIMBA ...



5G, 01 / 2020 (în 15 luni!) : PESTE 80% din date vor fi accesate de către cele mai slabe verighe ale securității: omul și smartphone...



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5G, 01 / 2020 (ÎN 15 LUNI!) : PESTE 80% DIN DATE VOR ACCESATE PRIN SMARTPHONE : DE CE ?

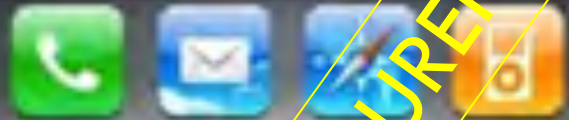
5G To Transform Lives

2G	3G	4G	5G
- 1991 -	- 1998 -	- 2008 -	- 2020 -
SMS	SMS, Internet	SMS, Internet	HD, 3D and ultra Video, SMS, Internet
0.1 MB/Second	0.1 - 8 MB/Second	Video, 15 MB/Second	internet of things, 1 - 10 GB/Second

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SPY



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IN THE HANDS OF A CYBERCRIMINAL, A COMPUTER IS A WEAPON.
EVERY CLICK MATTERS.

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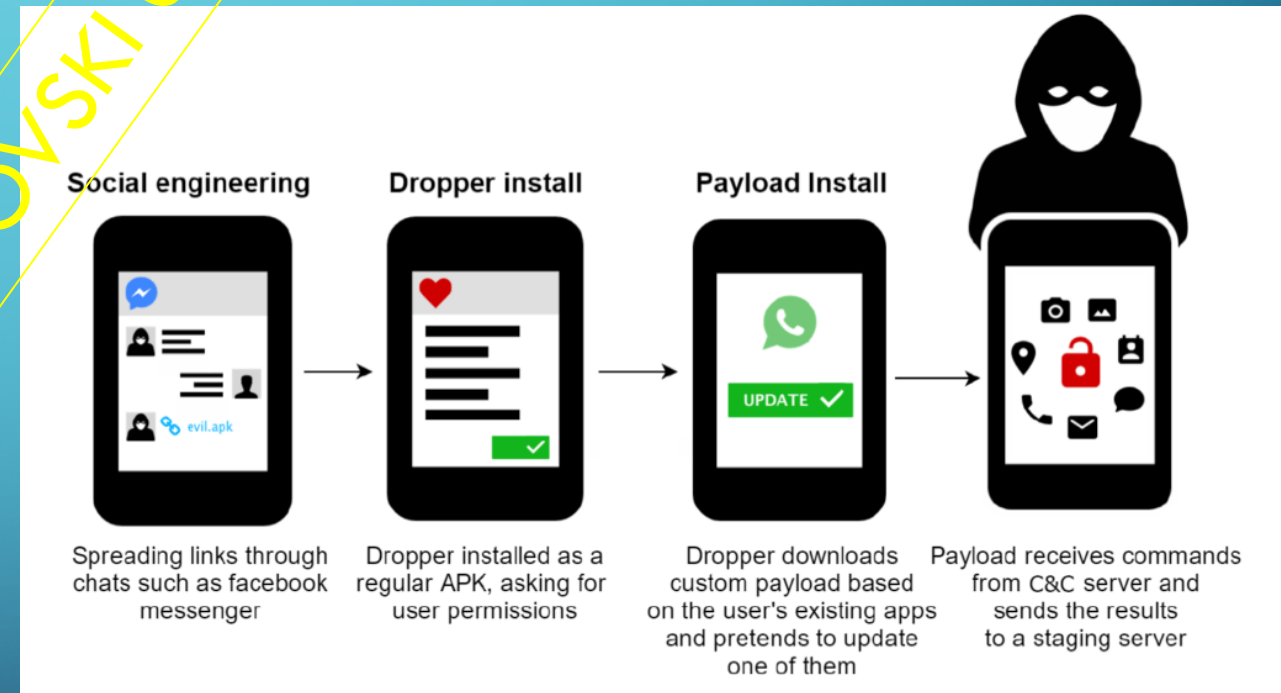
REGISTRATION DISPOSITIVES
AREA CONTROL DISPOSITIVES
ARCHIVE DISPOSITIVES
WI-FI ROUTERS DISPOSITIVES
TIME OCCUPATION

METOADA «MULTAM SMARTPHONE» ACUM :



© PENTAGON - STRAVA 2018

© IDF – HAMAS 2017 !



DUPA 5G...

SINGURA SOLUTIE

(in afara de smartphone criptat profesional A-Z) :
cultura obligatorie de securitate

ALL-LIFE
CAPACITY
BUILDING
IN OWN FIELD

STATE INSTUTUTIONS
PRIVATE COMPANIES
(in-depth levels according to
function inside the
company/institution)

SECURITY CULTURE
COMMON BACKGROUND
INTER-DPT. DIALOGUE

STATE INSTUTUTIONS
PRIVATE COMPANIES
(CITIZENS FOR THEIR e-LIFE)

COMPULSORY GENERAL AWARENESS
ALL EMPLOYEES FROM CEO TO NIGHT
CLEANER + CITIZENS

STATE, INSTUTUTIONS
PRIVATE COMPANIES
ALL CITIZENS

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NORMATIVE (NEAPPLICATE / APLICATE) SI CONSECINTE : TRAIM CU 3 « CATASTROFE » :

1/DIRECTIVA NIS

2/LEGE DE BAZA CYBER

3/GDPR

Directiva NIS :

**Neconstitutională în forma propusă (RO + 17 țări UE)
Irealizabilă în min. 5 țări UE unde este adoptată în lege**

Lege fundamentală « Cyber » : Traumatismul legii « Big Brother » din trecut

= Poliție nu are probleme, toate cele alte forte de ordine au

- sau suprapuneri de competente între ele**
- sau interdicție de a fi proactive**
- + incapacitate de a impune standarde către mediul privat (= pandemie UE), cu excepție Inf. critice și sectoare reglementate**

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« **CATASTROFA** » **GDPR** : Prost explicata, o directiva sanatoasa
(dar depasita) a generat în mai mult de 15 tari din UE...

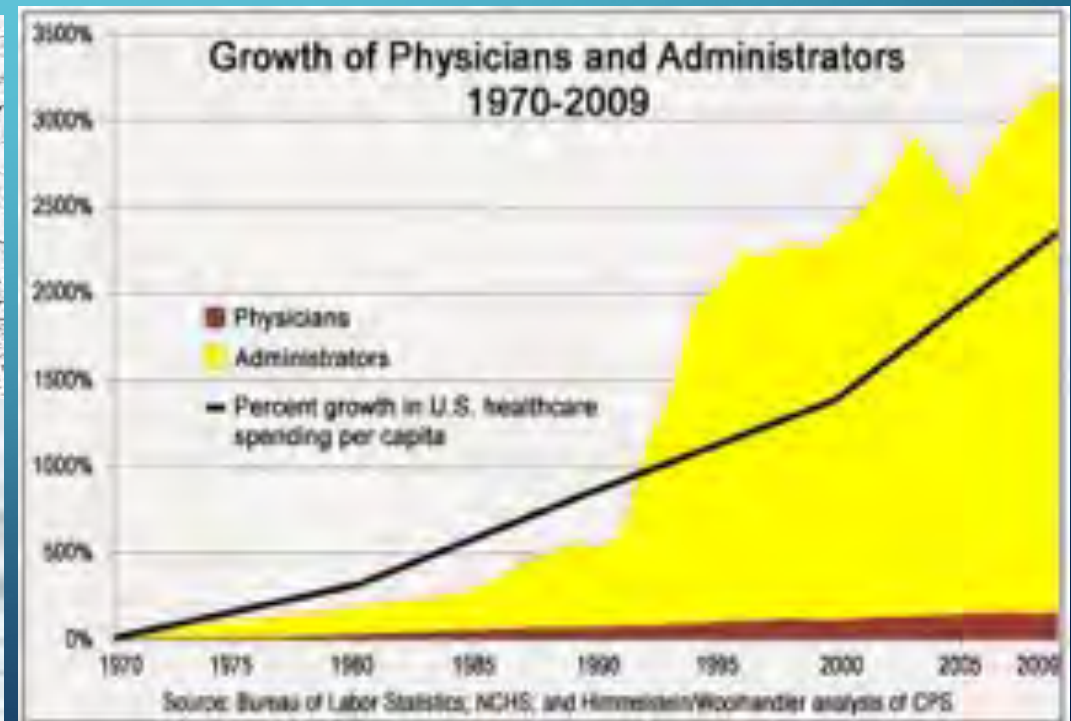
un castel in desert (extrem de scump în noi angajati si in tehnologii)
inserat într-un sistem de securitate **anacronic / vulnerabil / inexistent.**

MAI RAU : “HOTUL DE MASINI PUNE AMENDE DE TRAFIC !”

(81% institutii din UE nu sunt compliant – *primarii, administratii locale etc*)



Chiar de la patru CEO a firmelor cu cifre de afaceri de peste o suta de milioane de euro pe an, dintr-o ară membra a G7, am auzit : “sa numai vorbim de investitii în securitate în următorii doi-trei ani, pentru ca întâi trebuie să amortizăm costuri ai cheltuieli sustinute «din vina» GDPR”. Nimic de nou sub soare (cf. Healthcare USA).





**Rechizite pentru a deveni o putere cyber
(adica puteri conventionale necesare care
trebuie sa fie TOATE pe « verde »)**

- 1. Puterea economica a tarii si a sistemului privat**
- 2. Societate consolidata si parametre in crestere (Democratie, încredere in stat, justitie, în economie, etc.)**
- 3. Disponibilitatii de resurse umane si strategice de varf: capacitati de auto-sustenabilitate spre autarhia**
- 4. Puterea militara (*firepower*) conventionala**

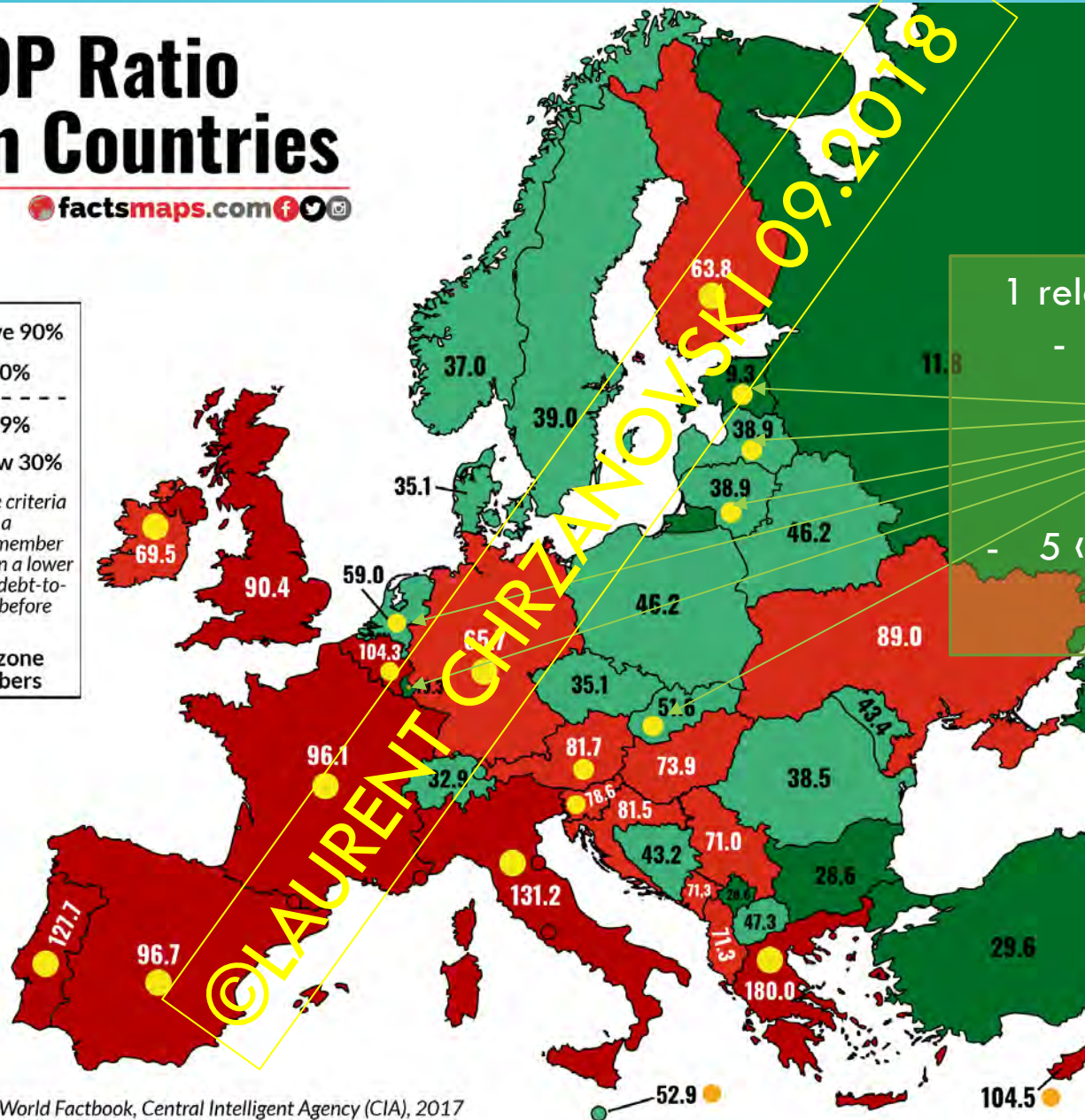
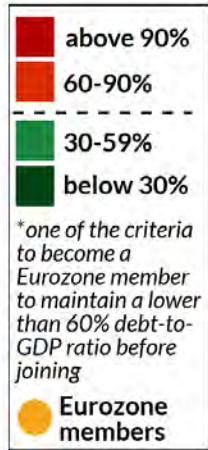
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1. ECONOMIC POWER : RICH FULL OF DEBTS

Debt-to-GDP Ratio in European Countries

factsmaps.com

• Greece	180.0 %
• Italy	131.2
• Portugal	127.7
• Cyprus	104.5
• Belgium	104.3
• Spain	96.7
• France	96.1
• UK	90.4
• Ukraine	89.0
• Austria	81.7
• Croatia	81.5
• Slovenia	78.6
• Hungary	73.9
• Albania	71.3
• Montenegro	71.3
• Serbia	71.0
• Ireland	69.5
• Germany	65.7
• Finland	63.8
• Netherlands	59.0
• Malta	52.9
• Slovakia	51.6
• Iceland	47.4
• Macedonia	47.3
• Belarus	46.2
• Poland	46.2
• Moldova	43.4
• Bosnia Herz.	43.2
• Sweden	39.0
• Latvia	38.9
• Lithuania	38.9
• Romania	38.5
• Norway	37.0
• Czech Rep.	35.1
• Denmark	35.1
• Switzerland	32.9
• Turkey	29.6
• Bulgaria	28.6
• Kosovo	20.6
• Luxembourg	19.3
• Russia	11.8
• Estonia	9.3



Source: The World Factbook, Central Intelligence Agency (CIA), 2017

1 relevant country (NL)

- At the limit -

- 5 « micro » countries

OK



1. ECONOMIC POWER : PRIVATE CRASHED BY DEBTS



Country	Last		
<u>Luxembourg</u>	483.88	<u>Dec/16</u>	%
<u>Ireland</u>	406.71	<u>Dec/16</u>	%
<u>Iceland</u>	314.90	<u>Dec/16</u>	%
<u>Norway</u>	286.78	<u>Dec/17</u>	%
<u>Denmark</u>	273.77	<u>Dec/16</u>	%
<u>Sweden</u>	263.47	<u>Dec/16</u>	%
<u>Belgium</u>	260.39	<u>Dec/17</u>	%
<u>Portugal</u>	257.50	<u>Dec/17</u>	%
<u>Netherlands</u>	251.10	<u>Dec/17</u>	%
<u>Switzerland</u>	239.26	<u>Dec/16</u>	%
<u>France</u>	233.97	<u>Dec/16</u>	%
<u>UK</u>	217.05	<u>Dec/17</u>	%
<u>Finland</u>	211.58	<u>Dec/17</u>	%
<u>Spain</u>	199.00	<u>Dec/17</u>	%
<u>Estonia</u>	184.53	<u>Dec/16</u>	%
<u>Italy</u>	172.63	<u>Dec/16</u>	%
<u>Turkey</u>	170.80	<u>Dec/16</u>	%
<u>Austria</u>	163.00	<u>Dec/16</u>	%
<u>Germany</u>	147.70	<u>Dec/16</u>	%
<u>Czech Republic</u>	138.30	<u>Dec/16</u>	%
<u>Greece</u>	136.61	<u>Dec/16</u>	%
<u>Slovenia</u>	132.71	<u>Dec/16</u>	%
<u>Slovakia</u>	132.33	<u>Dec/16</u>	%
<u>Hungary</u>	131.46	<u>Dec/17</u>	%
<u>Poland</u>	121.50	<u>Dec/17</u>	%

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1. ECONOMIC POWER : « PEANUTS » RESERVES

Rank ↕	Country or region ↕	Foreign-exchange reserves (Millions of US\$) ↕	Figures as of ↕
1	 China	3,125,000	April 2018 ^[1]
2	 Japan	1,256,018	April 2018 ^[2]
3	 Switzerland	757,327	April 2018 ^[3]
4	 Saudi Arabia	488,900	December 2017 ^[4]
5	 Russia	456,300	18 May 2018 ^[5]
6	 Taiwan ^[6]	456,721	February 2018 ^[7]
7	 Hong Kong	440,300	March 2018 ^[8]
8	 India	415,053	17 May 2018 ^[9]
9	 South Korea	396,800	March 2018 ^[10]
10	 Brazil	381,419	10 April 2018 ^[11]
11	 Singapore	287,148	March 2018 ^[12]
12	 Thailand	216,600	April 2018 ^[13]
13	 Germany	200,199	September 2017 ^[14]
14	 France	175,890	December 2017 ^[15]
15	 Mexico	173,022	January 2018 ^{[16][17]}
16	 United Kingdom	164,210	31 March 2018 ^[18]
17	 Czech Republic	151,604	January 2018 ^[19]
18	 Italy	143,183	March 2016 ^[20]
19	 Iran	137,500	31 December 2016 ^[21]
20	 Indonesia	130,200	31 December 2017 ^{[22][23]}
21	 United States	125,238	30 March 2018 ^[24]
22	 Poland	119,470	March 2018 ^[25]
23	 Israel	115,354	April 2018 ^[26]

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2. SOCIAL POWER & ABANDON OF DEMOCRACY : CONSEQUENCES

Forecasted Changes in the 2018 Misery Index Rankings

Misery Index: (Unemployment + Inflation)

Countries that worsened the most in the 2018 Misery Index rankings from 2016 (latest available confirmed data)



Countries that improved the most in the 2018 Misery Index rankings from 2016 (latest available confirmed data)



Romanian Parliament elections 2016 : voters : 39,5% of the electorate. Main party (PSD) governs with approval of 17.69% of the electorate (a little bit more than 20% with its ally, ALDE).

2. SOCIAL POWER & ABANDON OF DEMOCRACY : CONSEQUENCES

LESS THAN 50% STILL BELIEVE THAT TO VOTE IS IMPORTANT

Pays	1979	1981	1984	1987	1989	1994	1995	1996	1999	2004	2007	2009	2013	2014
BE	91.36		92.09		90.73	90.66			91.05	90.81		90.39		89.64
DK	47.82		52.38		46.17	52.92			50.46	47.89		59.54		56.32
DE	65.73		56.76		62.28	60.02			45.19	43		43.27		48.10
IE	63.61		47.56		68.28	43.98			50.21	58.58		58.64		52.44
FR	60.71		56.72		48.8	52.71			46.76	42.76		40.63		42.43
IT	85.65		82.47		81.07	73.6			69.76	71.72		65.05		57.22
LU	88.91		88.79		87.39	88.55			87.27	91.35		90.76		85.55
NL	58.12		50.88		47.48	35.69			30.02	39.26		36.75		37.32
UK	32.35		32.57		36.37	36.43			24	38.52		34.7		35.60
EL		81.48	80.59		80.03	73.18			70.25	63.22		52.71		59.97
ES				68.52	54.71	59.14			63.05	45.14		44.87		43.81
PT				72.42	51.1	35.54			39.93	38.6		36.77		33.67
SE							41.63		38.84	37.85		45.53		51.07
AT								67.73	49.4	42.43		45.97		45.39
FI								57.6	40.14	39.43		38.6		39.10
CZ										28.3		28.22		18.20

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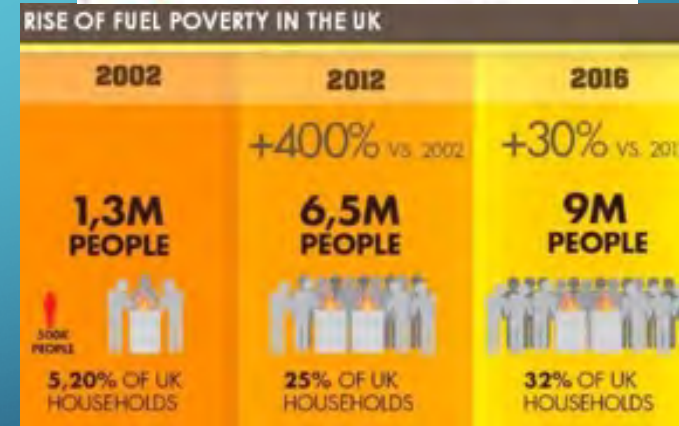
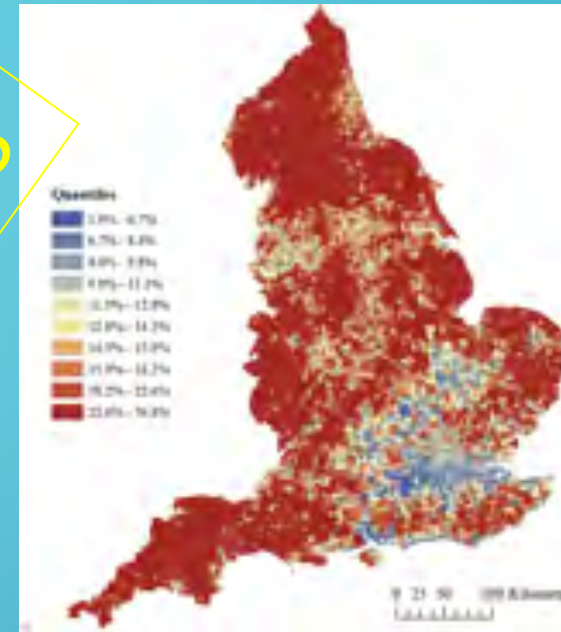
EE														26.83	43.9	36.52							
CY														72.5	59.4	43.97							
LT														48.38	20.98	47.35							
LV														41.34	53.7	30.24							
HU														38.5	36.31	28.97							
MT														82.39	78.79	74.80							
PL														20.87	24.53	23.83							
SI														28.35	28.37	24.55							
SK														16.97	19.64	13.05							
BG														29.22	38.99	35.84							
RO														29.47	27.67	32.44							
HR															20.84	25.24							
EU	61.99	-							58.98	-				58.41	56.67	-	-	49.51	45.47	-	42.97	-	42.61



3. DEPENDENCIES

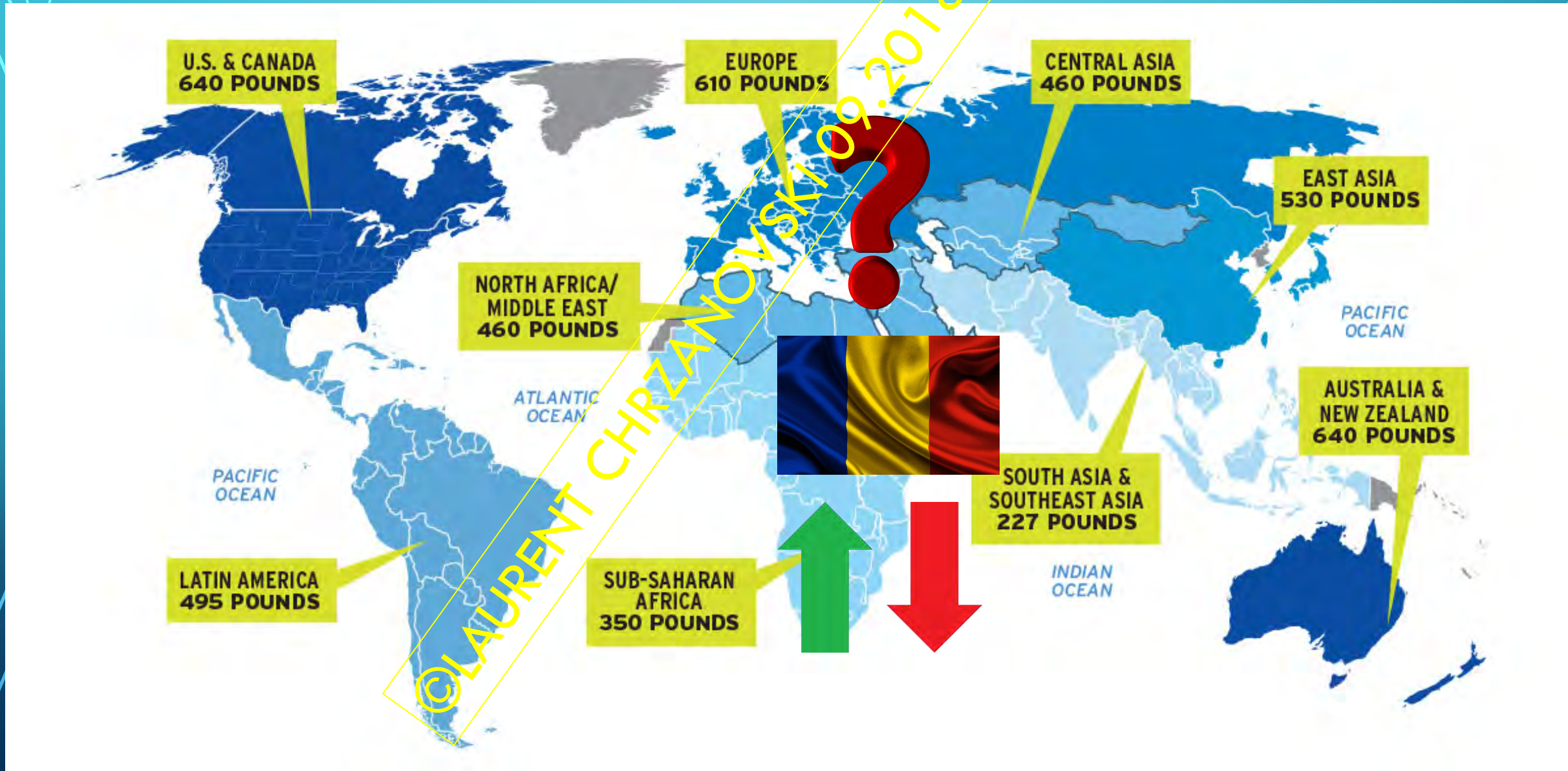
Dependency and net imports, 2012

Dependency	All types of energy	Crude oil	Natural gas	Solid fuels	Net imports (million TOE)
MT	100.5%	100.8%			2
LU	97.4%	100.5%	99.7%	100.0%	4
CY	97.0%			100.0%	3
IE	84.8%	98.5%	95.6%	55.4%	12
IT	80.8%	90.1%	90.2%	96.7%	134
LT	80.3%	93.0%	100.1%	89.2%	6
PT	79.5%	100.9%	99.7%	103.3%	18
BE	74.0%	99.3%	98.6%	94.2%	45
ES	73.3%	96.7%	99.6%	76.5%	99
EL	66.6%	101.3%	100.3%	2.3%	20
AT	63.6%	91.5%	86.3%	102.6%	21
DE	61.1%	96.0%	85.7%	40.0%	197
SK	60.0%	89.7%	89.8%	89.7%	10
LV	56.4%	101.7%	113.8%	95.2%	3
HR	53.6%		37.1%	87.8%	4
EU28	53.4%	86.4%	65.8%	12.7%	923
HU	52.3%	80.8%	72.9%	36.8%	12
SI	51.6%	105.0%	99.8%	21.5%	4
FR	48.1%	97.9%	96.6%	95.1%	125
FI	45.4%	92.5%	106.0%	57.7%	16
UK	42.2%	36.3%	57.0%	69.5%	87
BG	36.1%	96.9%	83.3%	21.4%	7
NL	30.7%	96.7%	74.5%	83.6%	29
PL	30.7%	94.7%	73.8%	-6.9%	30
SE	28.7%	95.4%	99.1%	78.2%	15
CZ	25.2%	95.3%	89.0%	-13.0%	11
RO	22.7%	51.4%	21.2%	16.6%	8
EE	17.1%	60.0%	100.0%	0.5%	1
DK	-3.4%	-34.8%	-54.0%	93.7%	-1



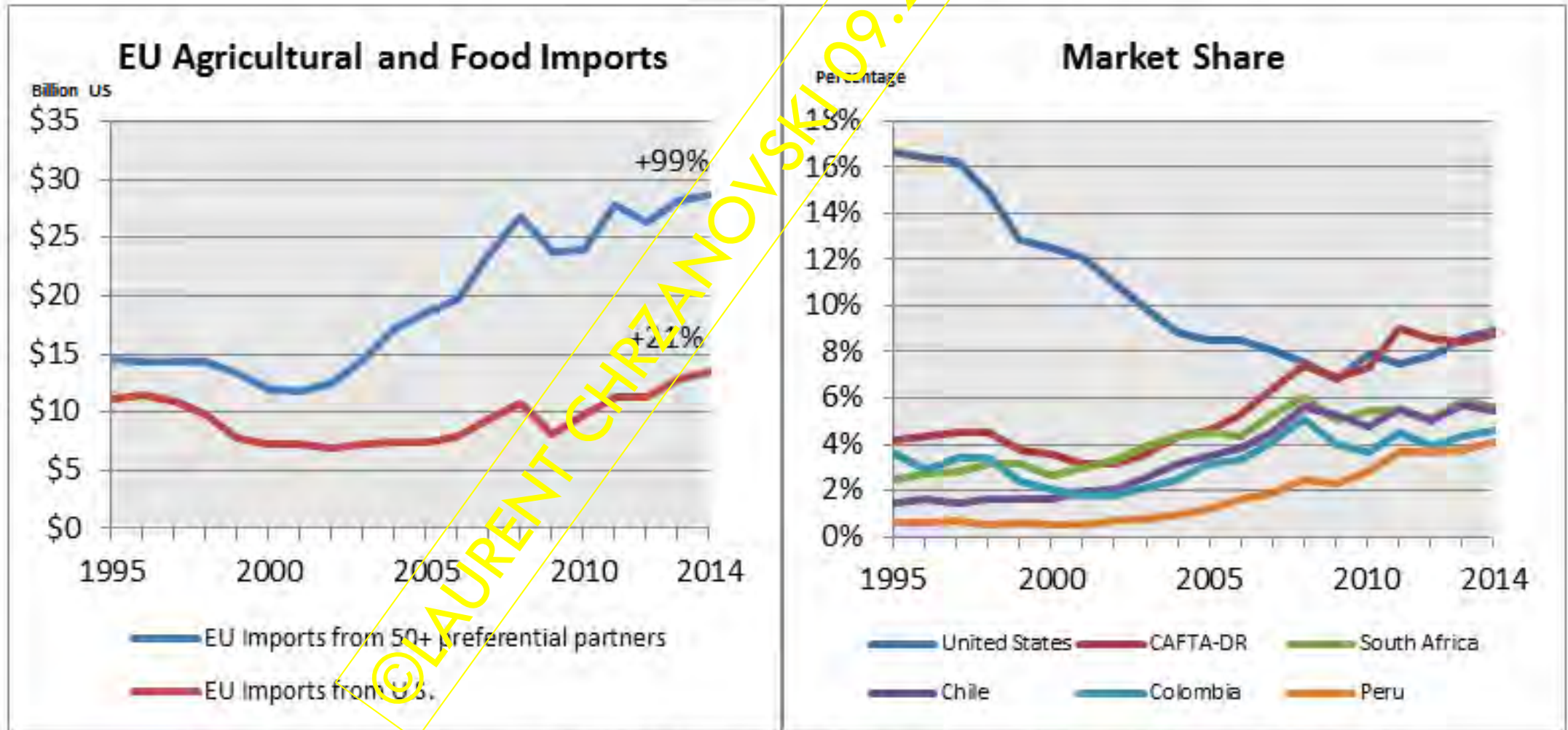
England, 2018: Relative percentage of fuel poor households using 10% indicator (© Robinson C.; Bouzarovski S.; Lindley S. 2018, Fig. 3) and a poster showing the dramatic evolution of the amount of poor in the last decades.

4. BAD GOVERNANCE : MAD AGRICULTURE



4. BAD GOVERNANCE : MAD AGRICULTURE

European Agricultural and Food Imports



Source: European Commission and FAS-GATS; United Nations import data available up to 2014 only

4. BAD GOVERNANCE : SUICIDE OF EDUCATION

Youth unemployment rate by country
(Russia : 16%; China : 10.8%; Israel : 9.4; USA : 8.4)

Country	Last	<u>Previous</u>	<u>Highest</u>	
Spain	34.40	<u>Apr/18</u>	35	55.9
<u>Italy</u>	31.70	<u>Mar/18</u>	32.5	43.5
France	20.70	<u>Apr/18</u>	21.5	26.3
<u>Turkey</u>	19.00	<u>Feb/18</u>	19.9	28.6
Euro Area	17.20	<u>Apr/18</u>	17.3	24.7



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5. CONVENTIONAL FIREPOWER : 2 « LEI » AND SI 25 DE MARIONETE

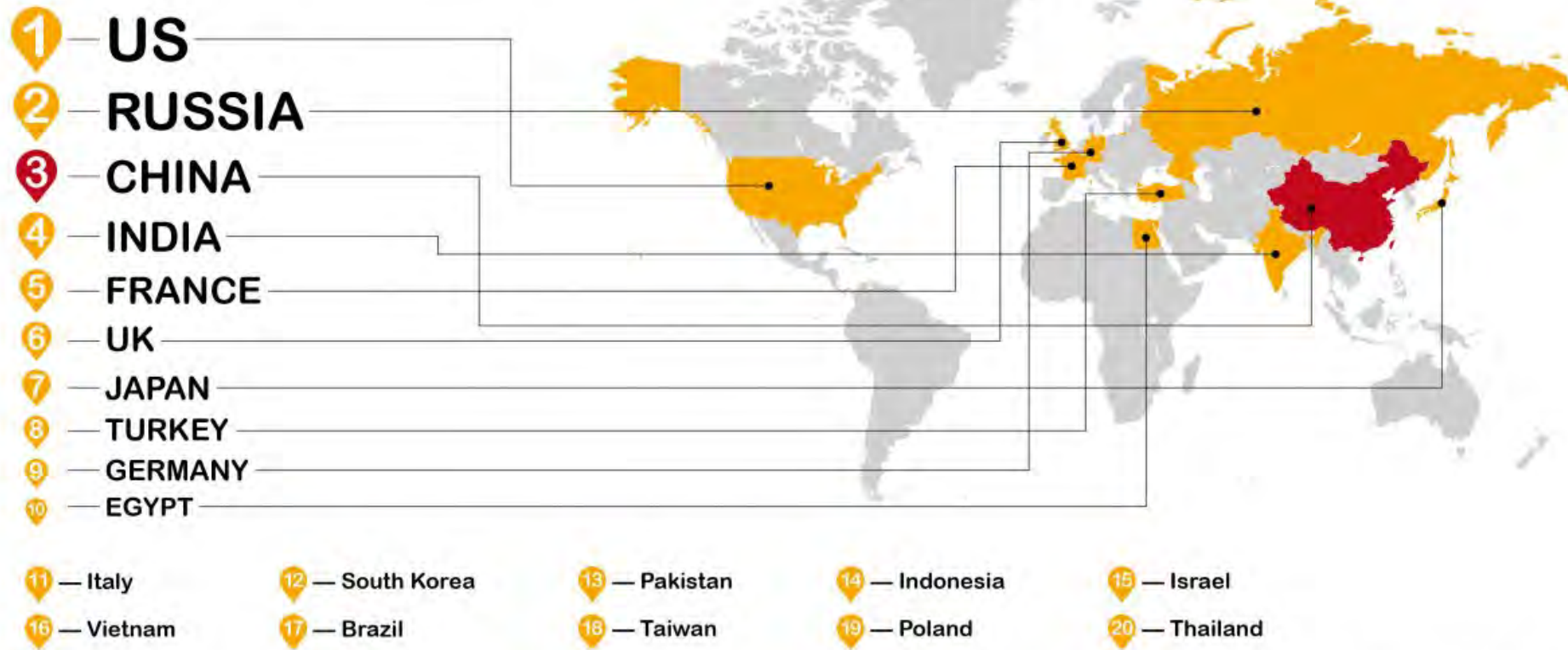


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5. CONVENTIONAL FIREPOWER : 2 « LEI » AND SI 25 DE MARIONETE

CHINA'S ARMED FORCES RANKED 3RD MOST POWERFUL ON GLOBAL FIREPOWER MILITARY STRENGTH INDEX

Eight other Asian countries – India, Japan, South Korea, Pakistan, Indonesia, Vietnam, Taiwan and Thailand – among 20 most powerful world militaries out of 133 countries.



Compiled by: ANN/DataLEADS

Source: Global Firepower Military Strength Index, 2017

CE TREBUIE FACUT ?



= SAU LEADER SAU CODAS IN VIITOR APROPRIAT

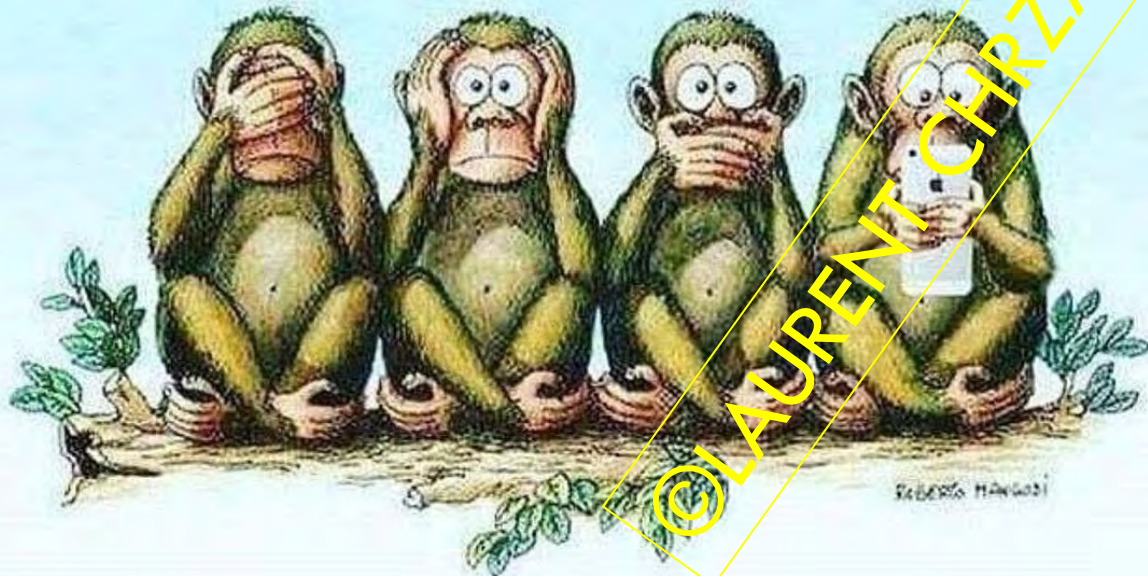
- UE traieste cu o bunastarea DIN TRECUT si cu CONSUMATORI (VARSTNICI) (RO = TOT POATE SA NASCA - ÎNCA)
- UE este TOTAL dependenta de importuri in IT&Ci (RO = TALENTE)
- UE nu este autarhica in energie (RO = POTENTIAL URIAS)
- UE nu este autarhica in hrana (RO = POTENTIAL URIAS)
- UE nu este autarhica in echipamente militare (RO AVEA FABRICI !)
- Europa (exc. UK si CH) este FOARTE DEPATE de la Top Shanghai si de la Top 50 Best Universities Rankings (RO AVEA POLITEHNICI !)

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6. « CYBER »

The Whatsape

Finally the fourth ape! He is the sum of the first three:
He sees nobody, hears nobody and speaks to nobody.



DE O 100 « common use »

Unelte Hard /Soft folosite in lume

EU Produced PCs = 0

EU Produced Laptops = 0

EU Produced Tablets = 0

EU Produced Smartphones = 0

Eu Produces Softwares = 0

EU Made browsers = 0

EU Made Social Networks = 0

EU Made Apps = 0

Dependenta in IT&C Tech > 80%

RO ARE ELITA IT PT A CREA NOI

PRODUSE !



DACA NU REUSIM,
VIITORUL PE TERMEN MEDIU
VA ARATA ASA...

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