Living Systems Evolution What next?

WIN-WIN not a solution ... but a problem!

Pierre BRICAGE Sichuan University, Chengdu.

The win-win deal is supposed to be a situation which is advantageous for everyone, in which the outcome benefits each party. In dynami studies win-win games are called games without losers. If we look at Human actions within ecosystems or at living and banking systems comparison, the win-win solution is never a solution but always a problem. EcoSystems are not winwin associations: whatever the actors in a network there are never advantages for some ones without disadvantages for other ones. The win-win approach is not a systemic one: nobody must be a permanent winner. No couple of actors can be isolated from the global network of actors in which they are sharing advantages and disadvantages Whatever the system and its level of organisation, it is structured with an endophysiotope that is hosted by an ecoexotope of survival. The spacetimes are modular, by embedment and juxtaposition of systems of systems. Whatever the level of organisation the local modules are in organisation the local modules are in interaction at different scales, within and between levels of organisation, but governed by the same fractal nower law. The modularity of the actors and their interactions, causes

of advantages or disadvantages, are at the origin of exaptation processes Sooner or later winner-loser interactions like will give rise to an Association for the Reciprocal and

Mutual Sharing of Advantages and DisAdvantages (ARMSADA), in which, for one to survive, all the others must survive first, in which

everyone is both a winner and loser

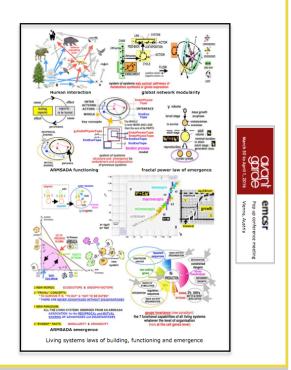
Taking into account all actors that are in interactions and share the hosting capacity of the same ecoexotope, at the system level you cannot always be a winner; sooner or later you will be a loser. Your capacity to be hosted must be in-between. And you must be lucky!

P.R. China

creative commons

There are never advantages without disadvantages. Greater the disadvantages for man, greater the disadvantages: a more and more degraded ecoexotope of survival and the emergence of new risks. Species frequencies changes are indicators of ecoexotope changes. Some species are winning whereas others are losing. Balance is changing and the current changes create more osers than winners. It is a "who wins will be a loser" game. Sooner or later winners become losers and losers become winners.

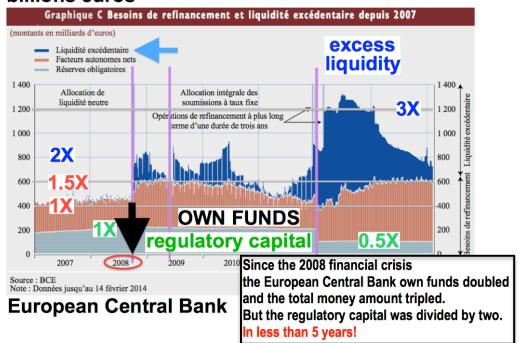
Mankind must take into account the lessons of Nature. ARMSADA is the only long lasting resilient solution between Man and Nature. We need

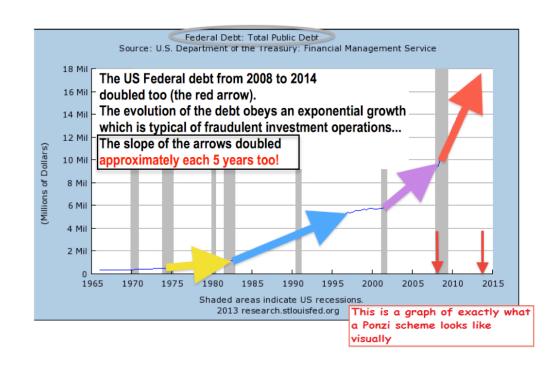


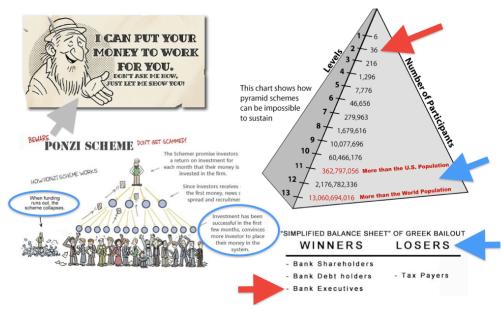
buenos días good morning Guten Tag γειά σου bonjour Добрый день! buongiorno bom dia



billions euros







The PONZI pyramid is a very common way of organization in selling management. Investment is successful for the previous "investors" as long as more others are convinced to join and place their money (or can sell goods).

The higher in the pyramid you are the more money you can get.

The lower you are more money you can lose.

Business culture and dishonesty in the banking industry

Alain Cohn, Ernst Fehr & Michel André Maréchal

Nature (2014) | doi:10.1038/nature13977 Received 19 February 2014 | Accepted 17 October 2014 Published online 19 November 2014

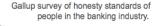
Recent research investigations have just shown that
- bankers have lower and lower honesty credit and
33% of US people agree they have no ethical standards
(the grey arrows).

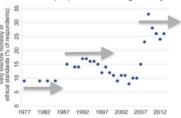
Behavioural economics:
Professional identity can increase dishonesty

Marie Claire Villeval

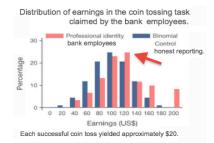
Nature (2014) | doi:10.1038/nature14068 | Published online 19 November 2014

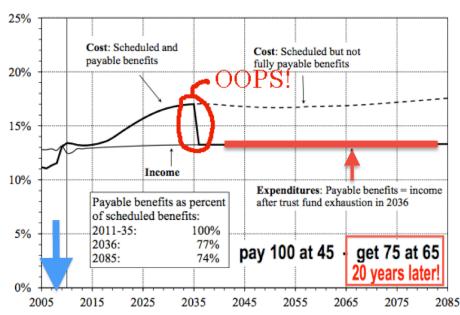
- dishonesty is increasing in banking employees compared to the behaviour of other professional identities. (the red distribution compared to the blue one)



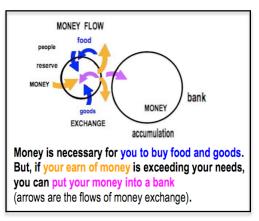


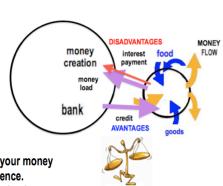
Fraction of US citizens thinking that bankers have very low or low honesty or ethical standards





If you are 55 today, current law will pay you 75 cents on the dollar!





Initially banks were created to secure your money and to get it back free at your convenience.

Of course there is an advantage for the bank.

Your money can be loaned by the bank (the violet arrow) to other people who will have to give the money back and to pay an interest for the bank (the red arrow).

So the bank can make money with your money.

2. LOAN

So the banking system is designed for banks

to make money without having any money...,

because a lot of money can be created

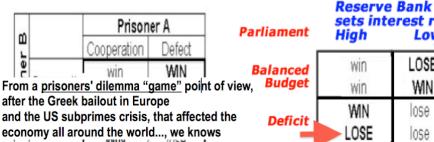
(the grey arrows).

with the money deposits that are loaned

1. DEPOSIT

Evolutionary systems, theories of living systems and theories of social systems AFSCET UES-EUS IASCYS Pierre BRICAGE SCU UPPA

Prisoners' Dilemma



"SIMPLIFIED BALANCE SHEET" OF GREEK BAILOUT

WINNERS LOSERS

- Bank Shareholders

- Bank Debt holders - Bank Executives

Tax Payers

- a lot of countries with budget deficit are in a loser situation, and that

- finally tax payers are the losers.

sets interest rates Low LOSE WIN ose lose

MORE THAN 15.000

EUROPEAN BANKERS

DOUBLED THE AMOUNT

OF THEIR BONUS!

3. SPEND

AT THIS POINT THERE IS \$1,900

AT THIS POINT THERE IS \$2,710

AT THIS POINT THERE IS \$3,439

IN THE SYSTEM.

IN THE SYSTEM.

IN THE SYSTEM.

THE BANK HAS \$271

THE BANK HAS \$190.

THE BANK HAS \$100.

Prisoner's dilemma: A study in conflict and cooperation - Rapoport - Cité 2136 fois Finite automata play the repeated prisoner's dilemma - Rubinstein - Cité 567 fois End behavior in sequences of finite Prisoner's Dilemma ... - Selten - Cité 631 fois

Evolutionary systems, theories of living systems and theories of social systems

Visualizing the Topology of 2X2 Games: From Prisoner's Dilemma to Win-win

International Conference on Game Theory, Stony Brook, NY, July 11 - 15, 2011

As a tool for institutional analysis and design, this paper presents additional visualizations of Robinson and Goforth's topology of ordinal 2x2 games linked by swaps in adjoining payoffs, in a modified, more accessible version of their

The prisoners' dilemma "game" is a tool to study conflicts and cooperation; it is mentioned thousands of times in the literature and with a lot of authors.

understanding of relationships among 2x2 games. For the design of institutional mechanisms, visualization of the topology can help to understand re-alignments of incentive structures that might be reached through negotiation, side payments, or changes in information, technology, preferences, or rules; mapping potential transformations into the adjacent possible.



Evolutionary systems, theories of living systems and theories of social systems



"WIN-WIN" is not the solution but the problem! What next?

Pierre BRICAGE



四川大学 Sichuan University, Chengdu, 中华人民共和国

pierre.bricage@univ-pau.fr

The European Meeting on Cybernetics and Systems Research, Wien, Österreich, March 30th - April 1st, 2016

AFSCET UES-EUS IASCYS Pierre BRICAGE SCU UPPA

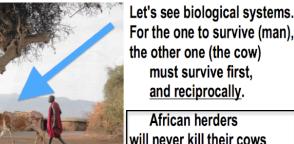
Too much phenomena are reported to be a WIN-WIN situation and are not. particularly in biological and sociological domains (for example symbiosis in NOT a win-win situation, NOT an association for mutual benefits!).

> And more.... sooner or later, win-win situations are at the origin of LOSE-LOSE ones!



FOR THE ONE TO SURVIVE

FOR THE ONE TO SURVIVE



will never kill their cows to eat their flesh. They will drink their milk and drink (or eat) their blood but never the flesh. Only after the animal death they eat it.





THE OTHER

MUST SURVIVE FIRST



THE OTHER **MUST SURVIVE FIRST**



THE OTHER MUST SURVIVE FIRST

Sooner or later, domestic plants and animals are eaten by man, but man has to protect them, to help them to eat and grow, during a lot of time before.

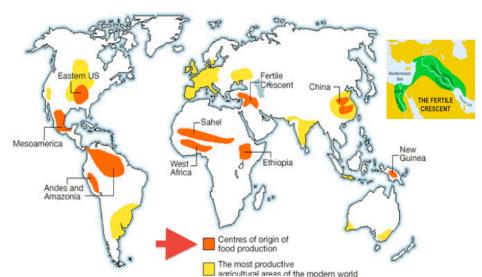


TO SURVIVE that is first TO EAT.

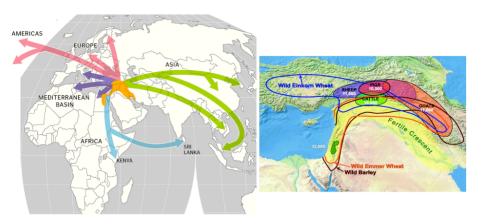


More than ten thousand years ago "A DEAL" was fixed between man species and some other animal species. And it was engraved in stones and painted on stones.





This DEAL was ubiquitous: at nearly the same time and everywhere, different kinds of this deal were sealed.



This DEAL was a great success: herders with domestic animals and farmers with domestic plants invaded the whole Earth biosphere.



was maintained and extended

from generation to generation

of farmers and fishers.

And that is true for every ecosystems: domestic (anthropic) and wilds ones.

Look at the functioning of the arctic food web. How to survive in the extremely cold Arctic?

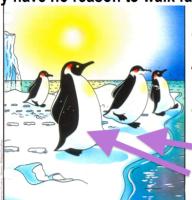


For man to survive, dog and the tundra deer must survive first.

UES-EUS Valencia, Spain - Globalization and Crisis. Complexity and Governance of Systems. - October 15th, 2014

pierre,bricage@univ-pau.fr Symposium 2: Human Interaction with EcoSystems. - p. 3 / 17

Look at Emperor penguins that survive in the extremely cold Antarctic. They have no reason to walk fast. And they can't!



On the ice bank there is no danger, no predator!
That is a great advantage for their survival.
And they lay their eggs there, they cannot be eaten.
But there is also nothing to eat for penguins.
And that is a great disadvantage.

an ecoexotope with an extremely low hosting capacity

an extremely high capacity to be hosted

There are never advantages without disadvantages.

And greater the advantages, greater the disadvantages.

But Penguins have 2 reasons to swim fast, very fast. And they can.

But for the tundra deer to survive, dogs and man must survive first.



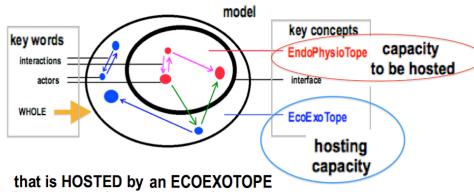
No one can survive outside the dependence of all the other ones.

May I introduce some <u>key words and concepts</u>.

Every living system is A WHOLE with ACTORS and IN INTERACTIONS.

The WHOLE is composed of an ENDOPHYSIOTOPE

(from Greek, endo: internal, tope: space-time, physio: of functioning)



(exo: external, tope: space-time, eco: of inhabitation) that is SHARED with other living systems.

The EcoExoTope is furnishing a HOSTING CAPACITY and the EndoPhysioTope will survive only if it owns a suitable capability, a CAPACITY TO BE HOSTED.

That is true for every living system whatever the scale and the level of organisation.

NO danger, no predator, but NO prey, NOTHING TO EAT, for the survival, <u>THE HOSTING CAPACITY of the ECOEXOTOPE</u> of the ice bank is very low. The Penguins ENDOPHYSIOTOPE owns a very high CAPACITY TO BE HOSTED.

preys but predators too!

to survive it is "to eat" and " not to be eaten " sooner or later it is impossible not to be eaten

"comer" y " no ser comido " tarde o temprano es imposible no ser comido

an ecoexotope with a high hosting capacity



In the sea water Penguins have at least 2 reasons for swim very fast: TO EAT AND NOT TO BE EATEN.

This part of the ecoexotope has a very high hosting capacity.

But there are a lot of predators, like killer whales.

THERE ARE NEVER ADVANTAGES WITHOUT DISADVANTAGES.

no reason for walking fast
but at least 2 reasons for swimming very fast
to survive it is "to eat" and " not to be eaten "

no razón para marchar rápidamente
pero 2 razones para nadar muy rápidamente
"comer" y " no ser comido"

Mois au mais deux roisons de nager vite.

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Greater the advantages and greater the disadvantages.

Symposium 2: Human Interaction with EcoSystems.

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There are never advantages without disadvantages!

To survive that is

to avoid advantages turn to disadvantages and to transform disadvantages into advantages.



To survive that is to eat and not to be eaten

'to be lucky!':

'to be at the right place at the right time' and not to be at the wrong place at the wrong time'!

Sooner or later it is impossible not to be eaten!

(within species first... but between species too!)



The struggle for life is first A COMPETITION for food and between the members

species

Look again at the boreal forest food web.

Man is in competition with Wolf and Bear to eat the Reindeer (the orange arrows). He is also in competition with a lot of other animals for sharing the same ecoexotope of survival (the yellow arrows).

How is Man winning the competition?:
by becoming a herder/a breeder rather
than being a hunter/a killer
by becoming a farmer rather than being
a gatherer/a ravager (the blue arrow).
But that increased the competition for food
between the Man food chain and all the other
living forms of the whole wild ecosystem
(the violet arrows).

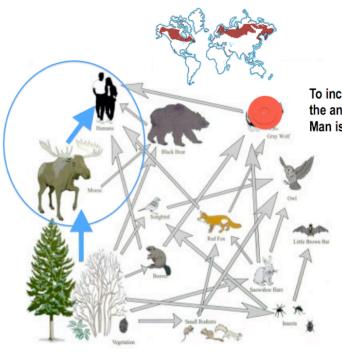
That increased the competition for food
between the Man food chain and all the other
living forms of the whole wild ecosystem
that are all sharing the same ecoexotope of
survival, and at all levels of interactions.

are at the origin and the maintenance of the system as a WHOLE.

balance regulating actors: their changes of abundance are regulating the abundances of other nodes of the web (here: the wolf species)

key-stone actors: their survival allows the birth and the survival of the whole, no whole without them (here: lichen species)

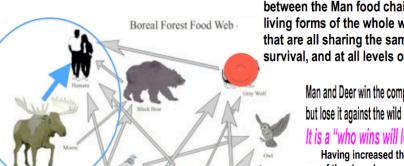
In all food webs there are special actors that by their interactions



To increase the abundance of the anthropic domestic food chain Man is destroying Wolf.

> The result is... You know it if you have seen the movie "Wolf Totem" or red the book of the great Chinese writer LÜ Jiamin





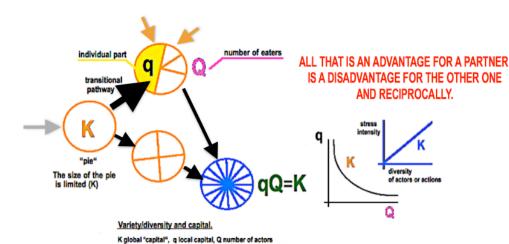
That increased the competition for food between the Man food chain and all the other living forms of the whole wild ecosystem that are all sharing the same ecoexotope of survival, and at all levels of interactions.

> Man and Deer win the competition against Wolf but lose it against the wild ecosystem as a whole.

It is a "who wins will lose" game!

Having increased the hosting capacity of the shared ecoexotope for itself only is the best way to decrease the capacity to be hosted of its own endophysiotope!

Killing the balance regulating actor increases the growth of the usual preys of the Wolf species and the eating of the plants that are usually eaten by domestic animals.

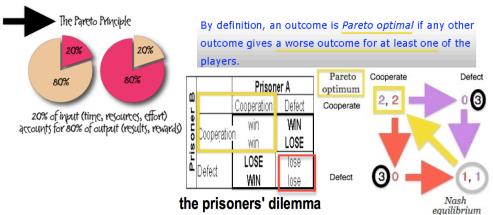


The sharing of a limited hosting capacity. The Earth is limited: "all the water on the Earth is only a drop on a pebble", and it is mainly salt water.

K "capital", q consumption at a time, Q number of available consumptions

K global consumable food/good, q quality, Q quantity

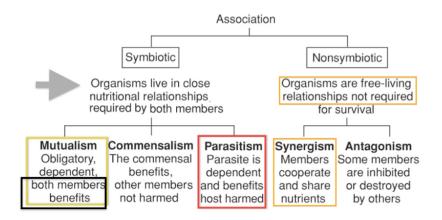
hosting capacity is preferred to carrying capacity in the sense of interaction and balance with capacity to be hosted



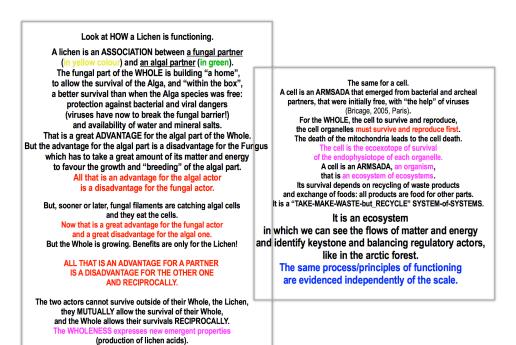
Evolutionary systems, theories of living systems and theories of social systems

By definition, a strategy pair is Nash equilibrium solution if each player's strategy is the best response to the other player's strategy.

symbiosis is usually described as a win-win situation, as an association for the benefits of both members



But really it is NOT an association for mutual benefits!



symbiosis is usually described as a win-win situation, as an association for the benefits of both members But really it is NOT an association for mutual benefits!

but an ARMSADA

ASSOCIATION for the RECIPROCAL and MUTUAL SHARING of

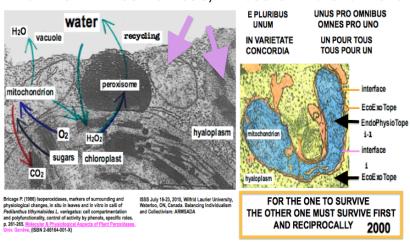
ADVANTAGES and DISADVANTAGES

... sooner or later,
WIN-WIN situations are
at the origin
of LOSE-LOSE ones!

in an ARMSADA there are no benefits for the partners but only for the WHOLE, indeed there are no partners but actors, and interactions, WITHIN a WHOLENESS



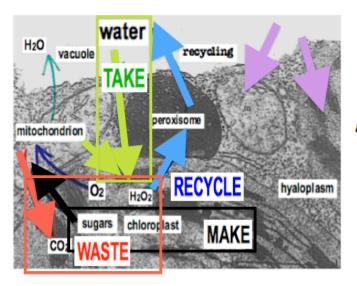
A CELL IS AN ENDOSYNCENOSIS, AN ECOSYSTEM of ORGANISMS



pierre.bricage@univ-pau.fr

Symposium 2: Human Interaction with EcoSystems

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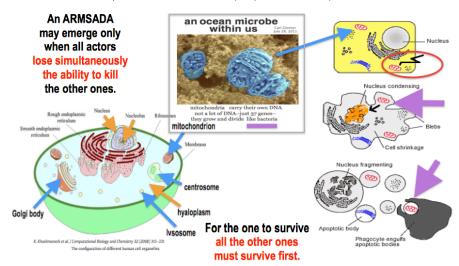


E PLURIBUS UNUM IN VARIETATE CONCORDIA

AN ECOSYSTEM of ORGANISMS

UNUS PRO OMNIBUS OMNES PRO UNO

UN POUR TOUS TOUS POUR UN UES-EUS Valencia, Spain - Globalization and Crisis. Complexity and Governance of Systems. - October 15th, 2014

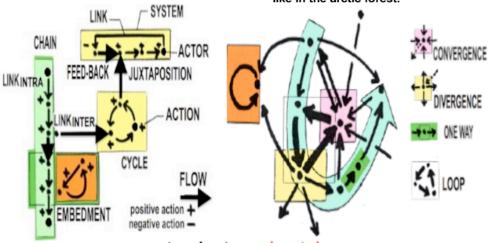


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Symposium 2 : Human Interaction with EcoSystems.

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It is an ecosystem in which we can see the flows of matter and energy and identify keystone and balancing regulatory actors, like in the arctic forest.



system of systems <u>web control</u>: pathways of metabolites synthesis or genes expression

The same process/principles of functioning are evidenced independently of the scale.

invitation du "groupe de travail" Emergence Paris 11 février 2013, maison des Arts et Métiers, Paris

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Man species is not only a keystone actor for its anthropic food chains,























AFSCET UES-EUS IASCYS Pierre BRICAGE SCU UPPA Evolutionary systems, theories of living systems and theories of social systems

Dog has helped Man since prehistory.



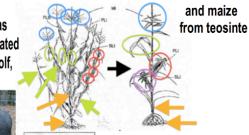
Dog was domesticated from Wolf.



Pig was domesticated from wild boar.

The "Domestication Syndrome" in Mammals A Unified Explanation Based on **Neural Crest Cell Behavior and Genetics**

But all domesticated living forms paid a heavy genetic load to become Man dependent!





That was a great advantage to be protected by Man for "to grow and multiply over" the wild species, but only a very few plant and animal species had this capacity to be hosted, to become a suitable domestic form from a lot of unsuitable wild forms. WHY?

it is also a predator (eating) and a prey (being eaten) in other food webs. TO SURVIVE THAT IS TO EAT AND NOT TO BE EATEN. SOONER OR LATER IT IS IMPOSSIBLE NOT TO BE EATEN. Man species is not an exception! TO EAT mpact: 1,5 à 2 millions personnes infectées par a partition : Afrique, Asie iques, Méditerranée Maladie de Chagas / Maladie e gent : parasite Trypanosomo rongeurs des rizières Impact : 100 000 personne <u>éservoir : homme</u> npact : 16 à 18 millions de s

WHAT genetic load to pay?

rfectées par an. 10 % de mortalité Répartition : originaire de Co s'étend du Japon à la Russie

Look at bacteria-viruses interactions.

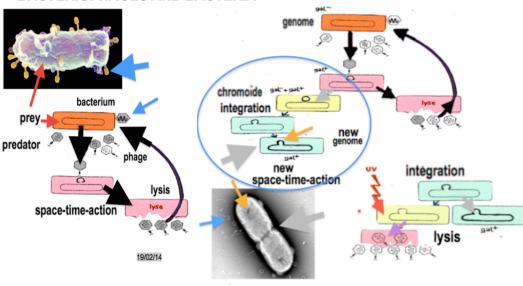
Usually a bacterium is a prey for a virus, a bacteriophage (from Greek phago: to eat), entering and lysing a bacterium allows the phage to have a progeny. Sometimes, but rarely, a phage has not the ability to eat a bacterium, it invades it but does not multiply its self and does not kill the bacterium. The genome of the disabled mutant phage is integrated into the bacterial genome.

Now, the WHOLE which is neither a bacterium nor a virus, but both a bacterium and a virus, owns new emergent properties, which allow to resist to previous viral infections and to invade new hosts. (It is a way for emergence of new bacterial diseases -like the plague did-.)

But for the one to survive, the other one must survive first.

If radiations are damaging the hyaloplasm or the genome of the bacterium. the virus takes its freedom back, making its self free, it produces a progeny. That is a great advantage for the virus (and the bacterium) to be hosted by the bacterium. but as long as the virus and the bacteria, both, can sustained the survival, the growth and reproduction of their common whole.

PREDATOR-PREY INTERACTION: BACTERIOPHAGES AND BACTERIA



http://armsada.eu

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MAMMOTH

Members

Polyomavirus, SV40 virus, human

Adenoviruses 12, 18, and 31

Mouse mammary tumor virus

Epstein-Barr virus

Henatitis B virus

papillomaviruses (eg, HPV-16)

Murine sarcoma and leukemia viruses.

avian sarcoma and leukemia viruses

human T cell leukemia viruses I and II

(alignable

45.43%

to elephant)

(predicted to align)

Class

Papovavirus

Adenovirus

Hernesvirus

RNA viruses

Retrovirus

type C

Retrovirus

type B

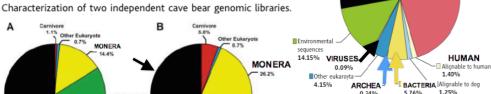
Hepadnavirus

UNKNOWN

18.42%

New-Generation Sequencing Technologies: Faster Results and New Applications T. Harkins

ancient integrated endophysiotope dangers Fig. 1. Characterization of the mammoth metagenomic library, including percentage of read distributions to various taxa. Host organism prediction based on BLASTZ comparison against GenBank and environmental sequences database.



CONSTRAINED
DANGERS
Unknown
66.5%

Unknown
61.6%

DANGERS

Unknown
61.6%

DANGERS

Unknown
61.6%

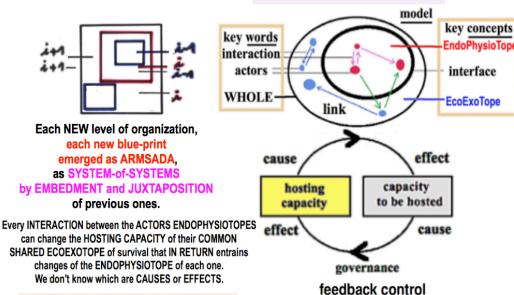
Other
62.5%

ALL LIVING SYSTEMS ARE INHABITED BY <u>VIRUS-LIKE CONSTRAINED DANGERS</u>. FOR EXAMPLE THE RECONSTITUTED GENOME OF THE MAMMOTH WAS HOSTING NOT ONLY ANCIENT GENES OF TODAY HUMAN, BACTERIAL AND VIRAL SPECIES BUT ALSO A HUGE AMOUNT OF VIRUS-LIKE CONSTRAINED SEQUENCES, "CONSTRAINED DANGERS" WHICH ARE IN BLACK.

THE SAME FOR EXTINCT CAVE BEARS SPECIES, WITH DIFFERENT AMOUNTS OF CONSTRAINED DANGERS, DEPENDING ON THE ECOEXOTOPE OF THEIR SURVIVAL. MANY OF THESE SEQUENCES ARE SIMILAR TO DNA AND RNA CARCINOGENIC VIRUSES.

SYSTEMIC CONSTRUCTAL LAW

of limits and limitation

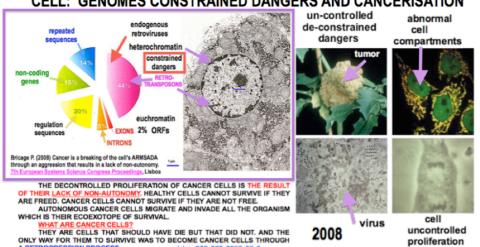


"interaction is construction, construction is interaction."

In the Mammoth genome, viral and bacterial genomes are integrated, the same for the extinct cave bear genome.

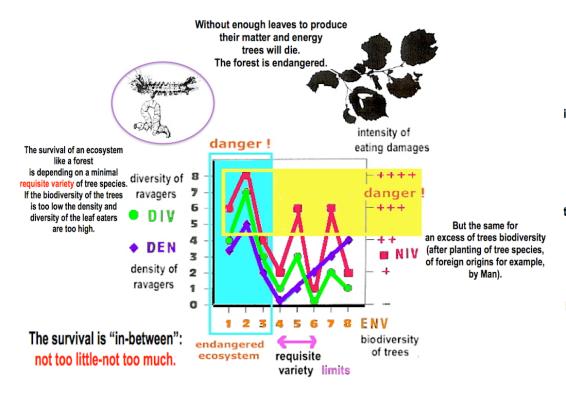
These CONSTRAINED DANGERS were necessary for their survival.

CELL: GENOMES CONSTRAINED DANGERS AND CANCERISATION



The same for Man genome.

And we know that cancers originate from the breaking of the cell ARMSADA at the genome level.



Insects and pests

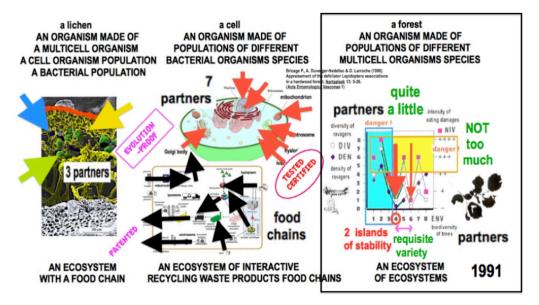
You can see the flow of an insect pest which is eating a forest: - the dark zone of trees is died trees, "eaten" ones, - the orange zone is "being eaten" trees, invaded dving ones, and the green zone is next "to be eaten" trees. The arrows are indicating the beetle moving for food. The mountain pine beetle (responsible for the brown and orange patches pictured) is just one dramatic example of a growing insect threat to some forests. Thanks in part to a warming climate, in Canada the native beetle has spread into forests 300 kilometers east of its original territory in western Canada. (That's a 3-hour drive at typical highway speeds.)



But indeed it is not a forest but a planted field of trees (like a field of corn). all from the same species: pines (variety = 1)!

Whatever the LEVEL OF ORGANIZATION all living systems are ARMSADA.

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Associations for the Reciprocal and Mutual Sharing of Advantages and DisAvantages

PLACENTA LEGUMES NODES PLAGUE ARMSADA ARE EVERYWHERE

Klevytska A.M. & al. (2001) Identification and characterization of variable-number tandem repeats in the Yersinia pestis genome J. Clin. Microbiol. 39: 3179-3185.

Kim A.I. & al. (2003) Mycobacteriophage Bxb1 integrates into the Mycobacterium smegmatis groEL1 Molecular Microbiology 50(2): 463-473.

²⁸ Ibid BRICAGE P. (2002a) http://www.afscet.asso.fr/resSystemica/Crete02/Bricage.pdf

²⁹ LIE T.A. (1984) Host genes in Pisum sativum L. conferring resistance to European Rhizobium leguminosarum strains., p. 415-425. Plant and Soil nº 82.

³⁰ LIE T.A. & TIMMERMANS P.C.J.M. (1983) Host-genetic control of nitrogen fixation in the <mark>legume</mark>-Rhizobium symbiosis: complication in the genetic analysis du to maternal effects., p. 449-53. Plant and Soil nº 75.

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There are, therefore: the plan, the act of creation itself and the blessing:

"And God blessed them, and God said to them,

"Be fruitful and multiply, and fill the Earth and subdue it; and have dominion over the fish of the sea and over the birds of the air and over every living thing that moves upon the Earth' ".

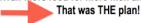
Genesis 1: 28.qua

ENHANCE the CAPACITY OF HOSTING of your ECOEXOTOPE

Do look at the Bible.

We must read again but in another way the sentences of Genesis.

For thousands of years we have enhanced the capacity of hosting of our ecoexotope of survival: more food for more men and more and more...



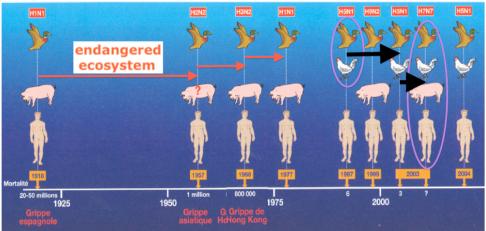
That is an unsustainable, crazy, way of survival.

This plan is not sustained today neither by our domestic partners nor by our wild competitors. That is an irresponsible way of dominion!

But it is a "who wins will lose" game.

So TO SURVIVE, for NOT TO DIE, bacteria and viruses from the wild are jumping into domestic food webs more and more, invading the anthropic food chains and MAN too!

MAN is an endangered species



Flu viruses, for example, but others are jumping the same (Ebola, Nile's Virus...), are flowing from wild bird species to domestic birds like fowls, and pigs, and finally men, and more and more species are invaded, and more and more rapidly.

MAN is an endangered species.

There are, therefore: the plan, the act of creation itself and the blessing:

"And God blessed them, and God said to them,

"Be fruitful and multiply, and fill the Earth and subdue it; and
have dominion over the fish of the sea and over the birds of the air
and over every living thing that moves upon the Earth'".

Genesis 1: 28.qua

ENHANCE the CAPACITY OF HOSTINGof your ECOEXOTOPE

regard to natural resources,
especially under the pressure of industrialization,
an irresponsible culture of "dominion" has been reinforced
with devastating ecological consequences
(VATICAN-21670, Monday March 09, 2015)

fill the Earth and subdue it fill the Earth but be subdued to it



ENHANCE the CAPACITY TO BE HOSTED of your ENDOPHYSIOTOPE

Maybe there was a mistake in copying and translation...

Maybe the sentence at the origin was NOT "to subdue" BUT "to be subdued"...

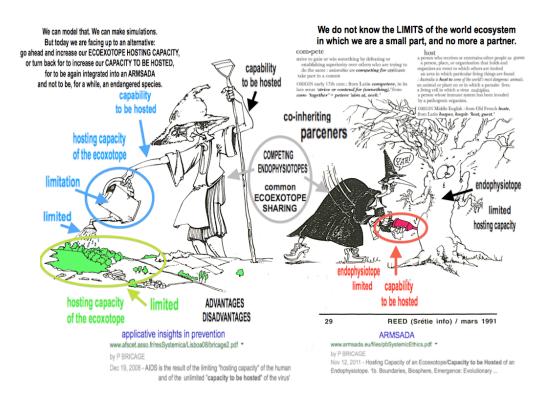
We had to read: "ENHANCE YOUR CAPACITY TO BE HOSTED" rather than "ENHANCE YOUR CAPACITY OF HOSTING",

NOT "have dominion OVER", BUT "have dominion WITH",

ENHANCE THE BALANCE BETWEEN THE SHARERS!

A lot of ancient Societies knew that.

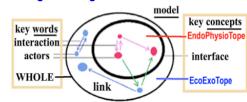
A lot of philosophic systems know that.



have dominion OVER every living thing have dominion WITH every living thing

dominion (historical):

each of the self-governing territories of the British Commonwealth

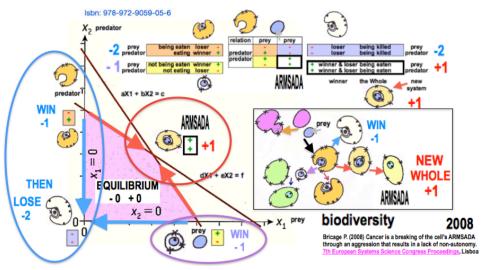


ENHANCE the BALANCE of INTERACTIONS BETWEEN
the CAPACITY TO BE HOSTED of your ENDOPHYSIOTOPE
and the CAPACITY OF HOSTING of the ECOEXOTOPE
YOU ARE SHARING WITH ALL OTHER LIFE FORMS

We can model that in term of Prisoners' dilemma "game", but it is not a game...

and the important point is not quantitation but quality and variety.

TO SURVIVE THAT IS TO EAT AND NOT TO BE EATEN: PRISONERS' DILEMMA



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p. 10/26

All living systems emerged with the MERGING into an ARMSADA, by EMBEDMENT and JUXTAPOSITION of previous SYSTEMS OF SYSTEMS. In an ARMSADA all partners have to be subduable and be subdued for their WHOLE to be sustainable and maybe sustained.

The MUTUAL survival always depends on RECIPROCALLY SHARED RESTRICTIONS.

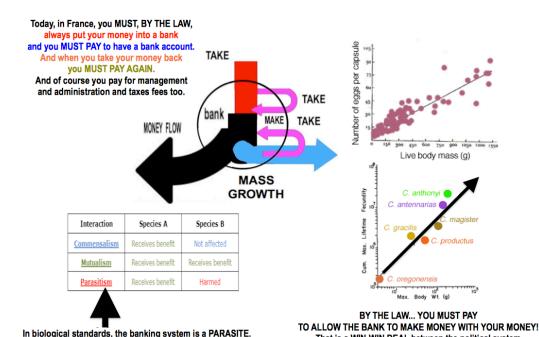
All partners MUST SIMULTANEOUSLY LOSE the capacity to kill all other one:

That is an EXAM each species has to PASS many times, again and again, during its lifetime.

When it passes its lifetime is extended.

But when it fails only 1 time, it is eradicated.

The longer a species enhances its capacity to be hosted, the longer its lifetime.



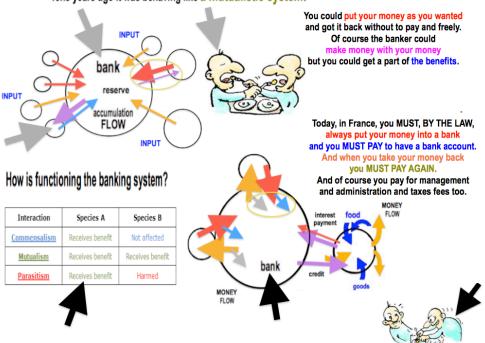
And indeed it is growing like a PARASITE does,

creating SOCIAL DISEASES.

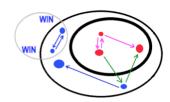
That is a WIN-WIN DEAL between the political system

and the banking system. And YOU ARE the LOSER.

Tens years ago it was behaving like a mutualistic system.



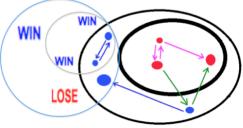
YOU CANNOT ALWAYS WIN.
WIN-WIN situation are not SYSTEMIC ones.
WIN-WIN deals give advantages to few partners,
but, sooner or later, they give birth to LOSERS.
ADVANTAGES for someones
are always disadvantages for other ones.
And greater the advantages,
greater the disadvantages.



We can model that. We can make simulations.

But today we are facing up to an alternative:
go ahead and increase our ECOEXOTOPE HOSTING CAPACITY,
or turn back for to increase our CAPACITY TO BE HOSTED,
for to be again integrated into an ARMSADA
and not to be, for a while, an endangered species.

We do not know the LIMITS of the world ecosystem in which we are a small part, and no more a partner.



THAT CANNOT BE A SUSTAINABLE WAY OF SURVIVAL neither for us nor for the banking system and the Society. We know that only RECIPROCAL REWARDS can stabilize COOPERATION.

ONLY the ARMSADA way is a sustainable one.





My today breakfast, with the help of bees.





grazie mille

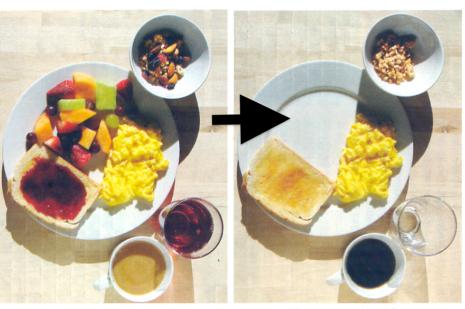


muchas gracias

Vielen Dank

merci beaucoup muito obrigado

شكرا جزيلا



without bees.

My tomorrow breakfast

"WIN-WIN" is not the solution but the problem! What next?

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Presses Université des Sciences Sociates, Toulouse, France, pp. 111-117.

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2 NEW WORDS:

ECOEXOTOPE & ENDOPHYSIOTOPE

2 "TRIVIAL" CONCEPTS: * TO SURVIVE IT IS "TO EAT" & "NOT TO BE EATEN"

* THERE ARE NEVER ADVANTAGES WITHOUT DISADVANTAGES

1 NEW PARADIGM:

ALL THE LIVING SYSTEMS EMERGED FROM AN ARMSADA ASSOCIATION for the RECIPROCAL and MUTUAL **SHARING OF ADVANTAGES and DISADVANTAGES**

2 "EVIDENT" FACTS:

MODULARITY & ERGODICITY

Design and Science in an Age of Entanglement. Joanna Boehnert

We are what we made. **Gregory BATESON**

We are what we eat. We are how we are eaten.



Inspirational Systems Change Needed. Katri-Liisa Pulkkinenen

"You never change things by fighting the existing reality.

To change something, build a new model that makes the existing model obsolete."

Buckminster Fuller

THAT IS EXACTLY WHAT NATURE IS DOING!

We are on obsolete model!

And maybe the new MODEL,
the new ARMSADA BLUE-PRINT is ON the way,
but today without us.

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EMOTIONAL REFLEXIVE LEADERSHIP
Michaela Bristol-Faulhammer

VALUES ARE EXPRESSED IN LANGUAGES
(De Saussure, 1966)
and VALUES ARE THE DRIVING FORCES FOR ACTION

TREATISE OF ENTIRETY Magda C. Kaspary

treatise from LATIN tractare integrity INTEGER

GOVERNANCE FROM BELOW
Asimina KOUKOU



Greek etymology of words

What is THE VALUE, the MEANING, of BLACK and WHITE

in our EUROPEAN SOCIETIES and in the INDIAN SOCIETY?

DON'T BE A FIELD, BE A FOREST!

What is THE VALUE, the MEANING, of GREEN and RED

in our EUROPEAN SOCIETIES and in the CHINESE SOCIETY?

THERE ARE NEVER ADVANTAGES WITHOUT DISADVANTAGES.
FOR TO TURN DISADVANTAGES INTO ADVANTAGES
AND TO AVOID ADVANTAGES TURN TO DISADVANTAGES
ARMSADA IS A SYSTEMIC SOLUTION.
YOU CAN NEVER ALWAYS BE A WINNER,
SOONER OR LATER YOU WILL BE A LOSER.

We are on obsolete model!
And maybe the new MODEL,
the new ARMSADA BLUE-PRINT is ON the way,
but today without us.

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ALL THAT IS AN ADVANTAGE FOR A PARTNER
IS A DISADVANTAGE FOR THE OTHER ONE
AND RECIPROCALLY.

"ENHANCE YOUR CAPACITY TO BE HOSTED" rather than "ENHANCE YOUR CAPACITY OF HOSTING", NOT "have dominion OVER", BUT "have dominion WITH", ENHANCE THE BALANCE BETWEEN THE SHARERS!

DON'T BE A FIELD, BE A FOREST!

THAT IS EXACTLY WHAT NATURE IS DOING!