## Trust: the unloved sibling



#### **Piotr Cofta**

http://trust-governance.com

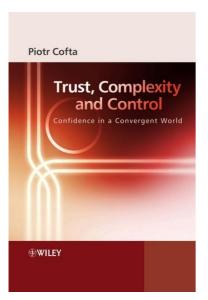
#### Piotr Cofta PhD CISSP SIEEE

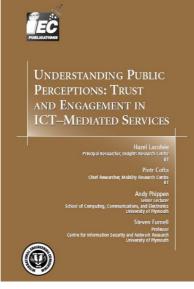
#### **CTO Trusted Renewables**

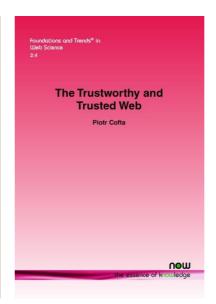
#### **Risk and Trust**

http://trust-governance.com

http://piotr.cofta.net





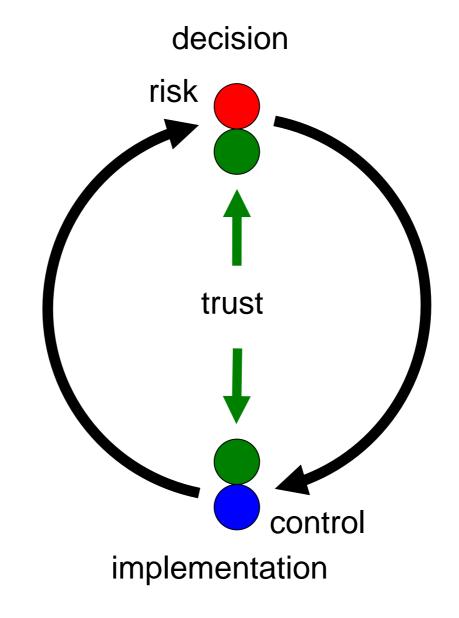




#### The unloved sibling...



Peter Drucker 1909-2005



#### All that started with a dead guy



Thomas Bayes, 1701-1761, London

Probability of future events can be estimated on the basis of past events.

#### **Disclaimer**

Past performance is no guarantee of future performance.



#### **Ceteris Paribus\***

\* "assuming everything else is equal"

environment is assumed to be stable not subject to whims of others not affected by the decision itself

## 0

#### **Corporate decisions**

#### variable environment

#### INTENTIONALITY

butterfly effect

chaos theory

**MTBF** 

MTTF

**MTTR** 

**ALE** 

SLE



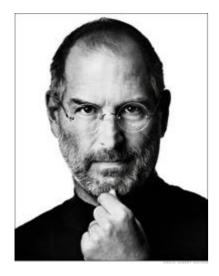
statistics

actuary

derivatives

stable environment

#### Intentionality

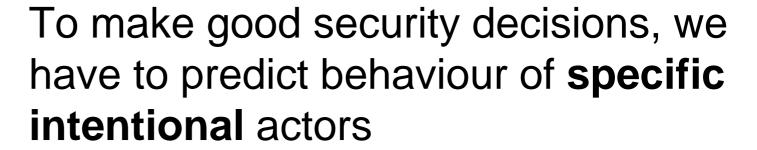


Steve Jobs 1955-2011

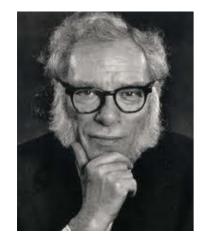
Environment of our decisions increasingly depends on **intentional actions** of others (individuals or organisations)

- product -> service
- hardware -> managed platform
- software -> contract
- disk -> cloud storage
- ownership -> license to use

#### New challenge



- powerful attackers
- high-level insiders
- system administrators
- contractors and collaborators
- companies and governments
- user groups



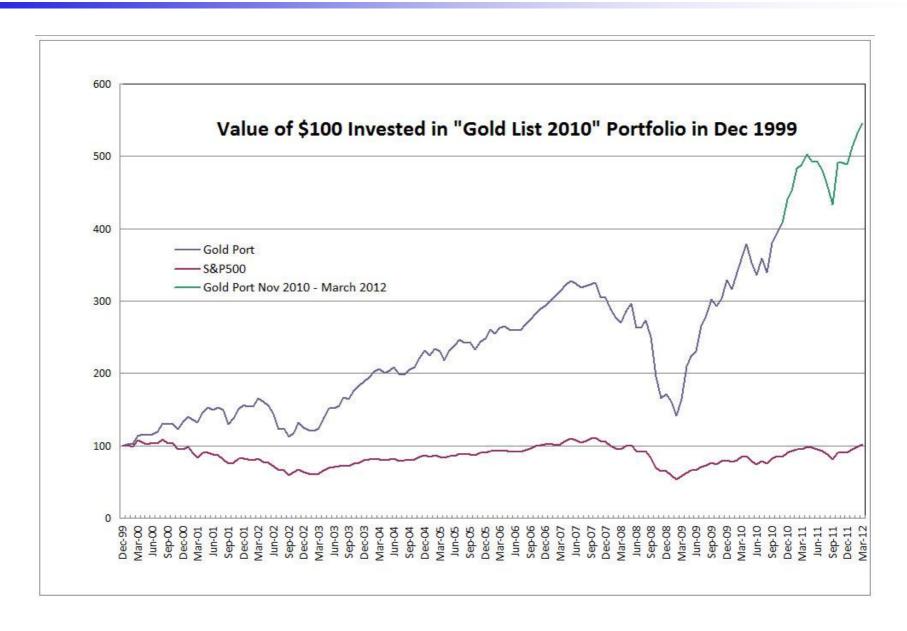
Isaac Asimov 1920-1992

#### 0

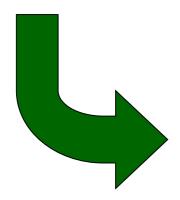
# Trust provides better prediction of intentional behaviour than risk

# It is also more profitable to use trust!!

#### trustacrossamerica.com



#### Trust governance



#### Is he/she/it trustworthy?

What makes him trustworthy?

Can I develop trust with him?

How can I trust?

What can I do with trust?

What is trust?

#### But but but ...

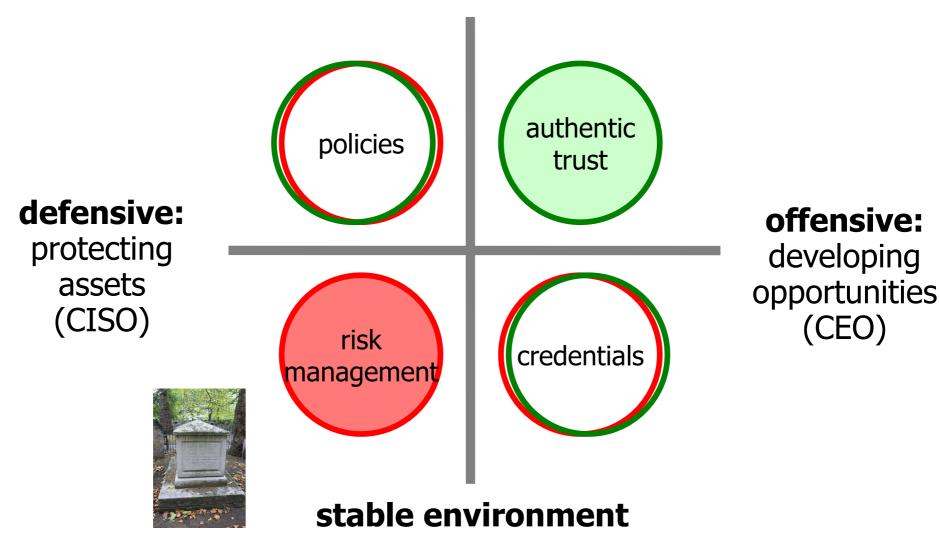


Keira Knightley "Love Actually"

- Trust is not always applicable
- There is no definition
- Risk is here to stay
- We are not trained in trust
- We cannot measure trust

#### But .. trust is not always applicable

#### variable environment



#### But .. there is no definition

Is a new opportunity a risk? (ISO 27001) likelihood \* impact of undesired events only if likelihood and impact can be estimated (PRINCE2) events that have effect on objectives definitely yes (NIST 800-30) negative impact of the exercise of a vulnerability no, as there was no vulnerability

#### Trust is ...

• ... the willingness of a party (trustor) to be vulnerable to the actions of another party (trustee) based on the expectation that the other party will parint a particular action important to the trustor, irrespective of their ability to monitor or control that other party.

... the acknowledgement of trustworthiness



#### But .. risk is here to stay

## "It is difficult to make predictions, especially about the future"

Niels Bohr (and many others)



- fate (antiquity)
- destiny (renaissance)
- progress (industrialisation)
- risk (modernity)
- trust (coming)

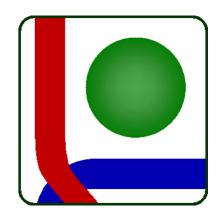
#### 0

#### But .. we are not trained in trust

- Ask me
- Work with us
- Check the web site:

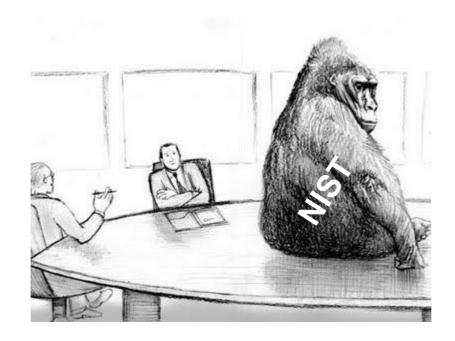
http://trust-governance.com

- Contribute, share, discuss
- Learn and experiment
- Build authentic trust
- Ignore 'trust gurus'



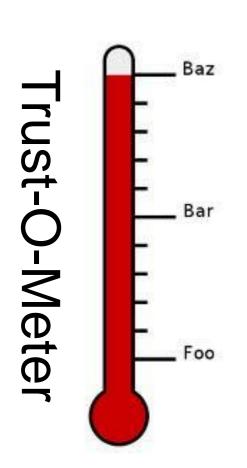
#### But .. we cannot measure trust

#### Risk used to be immeasurable



risk = likelihood \* impact

#### Become a '10 minute expert'



 How to become an expert in trust measurement in 10 minutes?

- Use Trust-O-Meter!
  - not a tool to 'measure' trust
  - tool to reflect on trust
  - to share what you think of trust

#### **Classical triad**



- A: Competence -> [0..1]
  - He is able to help me, he is a professional
  - B: Benevolence -> [0..2]
    - He seems to be a good man, he will not leave me alone
  - C: Continuity -> [0..3]
    - He is really committed, his future career is at stake

X = MAX(A, B, C)

#### **Sharing triad**

- D: Shared background -> [0..1]
  - We are from the same school so I understand him
- E: Shared benefits -> [0..2]
  - He is as much dependent on me as I am on him
- F: Shared **values** -> [0..3]
  - We both observe the same fundamental values



Y = MAX(D, E, F)

#### **Social triad**



 The situation and the type looks familiar and it turned out to be good

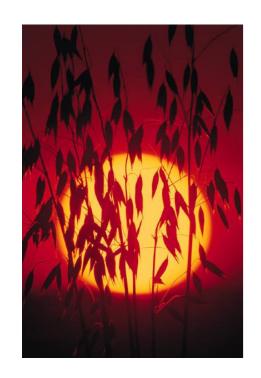
H: Stereotyping -> [0..2]

Doctors are trustworthy, and he is a doctor

I: Similarity -> [0..3]

 He is like myself, or like a person I found trustworthy

Z = MAX(G, H, I)



- 0-1: Walk away.
- 2-3: Proceed with caution.
- 4-6: Try to learn more.
- 7-8: Trust, but verify.
- 9: Too good to be true.

Now, the real question

#### Is this what you call trust?





#### Thank you

#### **Piotr Cofta**

share your thoughts

http://trust-governance.com