



*Security as a principle and
security based on risks. Not an antinomy*

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1. Risk based approach for data protection doesn't mean putting our data at risk

An example



• 50% + 

• 50%

Expected gain = + 

A simple variant



• 50% +



• 50% -



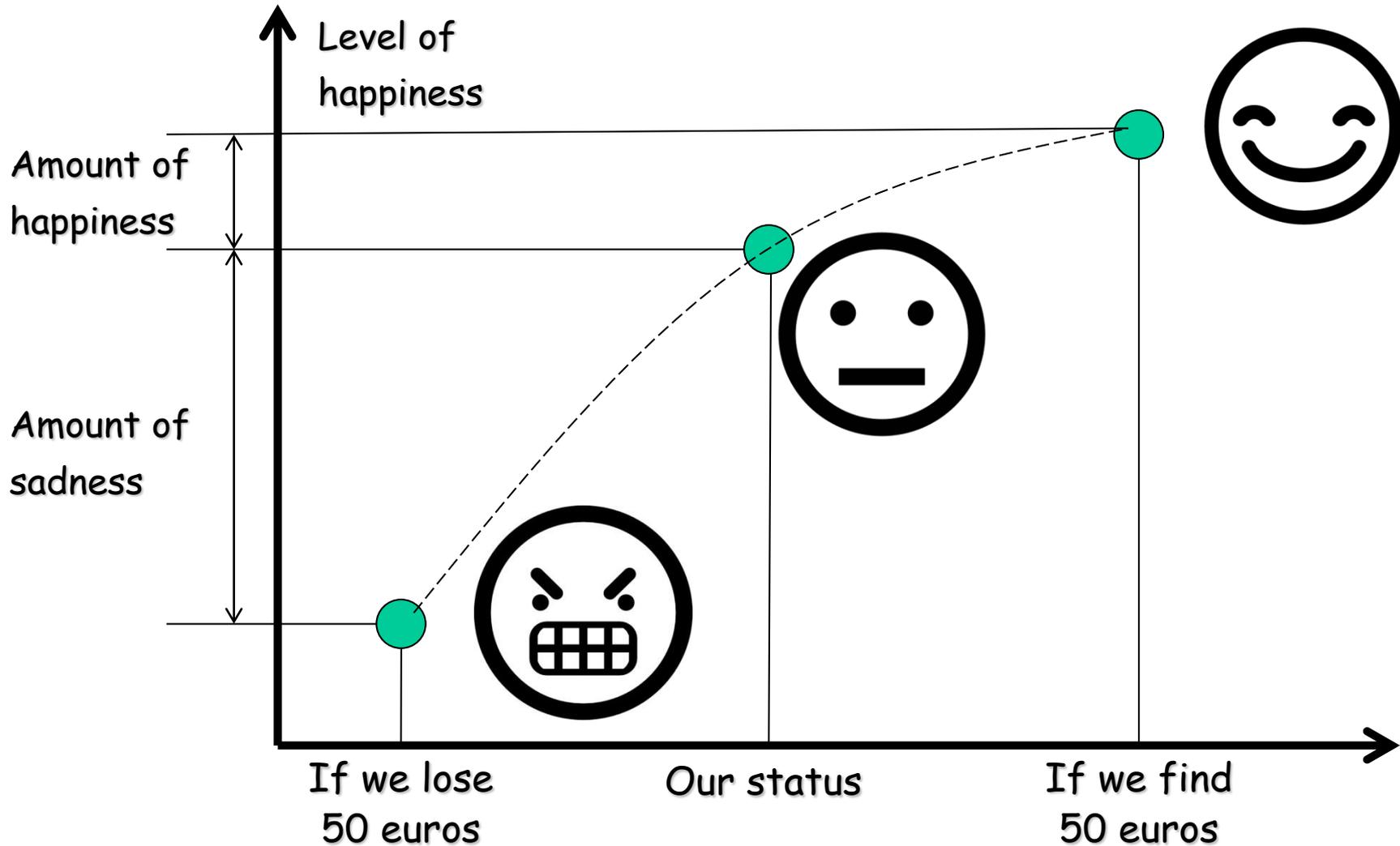
Expected gain = +





1. Risk based approach for data protection doesn't mean putting our data at risk
2. Risk metric matters

Being risk averse





1. Risk based approach for data protection doesn't mean putting our data at risk
2. Risk metric matters
3. Risk assessment must be performed in an accountable way

Prescriptive security:

1. secure the ground floor with a guard in each corner
2. move to the second floor and iterate



Residual risk of attack 1%

Engineering risk



GARANTE
PER LA PROTEZIONE
DEI DATI PERSONALI





1. Risk based approach for data protection doesn't mean putting our data at risk
2. Risk metric matters
3. Risk assessment must be performed in an accountable way
4. Engineered risk based approach can save costs and give more safeguards

Security as a principle



| | Investment | Loss | Probabilità | Expected Loss |
|------------------|------------|------------|-------------|---------------|
| Status quo | 0 | -1.000.000 | 10% | -100.000 |
| After Investment | -50.000 | -1.000.000 | 1% | -10.000 |
| | | | | |
| Delta | -50.000 | | | 90.000 |



WSJ

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JR: IS LEADERSHIP

You May Be Fighting the Wrong Security Battles

How IT executives can determine the right amount to spend—and where to spend it

By Lawrence A. Gordon and Martin P. Loeb

September 26, 2011

A recent wave of information-security breaches at high-profile companies has many executives on heightened alert. They're trying to figure out everything they can do to prevent breaches, limit the damage if one occurs, and be prepared to rebound quickly from whatever harm is done.

Security as a principle



GARANTE
PER LA PROTEZIONE
DEI DATI PERSONALI

COMMUNITY & PRIVATE
BLAST SHELTERS
1 TO 500 FAMILIES

VENTILATION

WATER

FOOD

SANITATION

COMMUNICATION

GEIGER COUNTER

LEE SERVICE INC.
MECHANICAL CONTRACTORS—ENGINEERS
40th & WALNUT STS. EVERgreen 6-3800



- Security for trust
- Security for data quality
- Security for interoperability
- Security for reliability
- Security for the safety of objects
- Security for the safety the environment
- Security for health
- Security for wellbeing
-

1. Risk based approach for data protection doesn't mean putting our data at risk
2. Risk metric matters
3. Risk assessment must be performed in an accountable way
4. Engineered risk based approach can save costs and give more safeguards
5. Security is a principle. We need new security paradigms



Thanks

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