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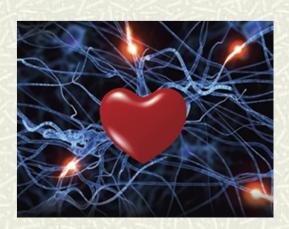
# **Investor Protection and Education Going Forward**

What does it take to change behaviour?

IOSCO RIO 2014



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# ECONOMIC PSYCHOLOGY AND

# INVESTOR EDUCATION





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# [some of] THE CHALLENGING PROBLEMS



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# 1. We don't have stable preferences – rather, we're context dependent





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# 1. We don't have stable preferences – rather, we're context dependent





#### higher life satisfaction!



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#### 2. We're BLIND





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#### 2. We're BLIND to our OWN blindness

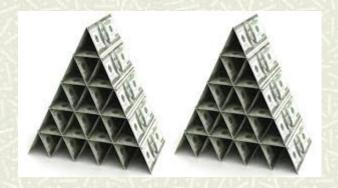






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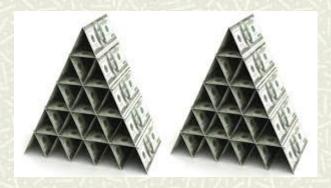
#### 3. We want to be fooled!





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#### 3. We want to be fooled!



# If you don't fool me... I'll do it myself!

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# 4. THERE IS A LARGE GAP BETWEEN INTENTIONS... AND ACTIONS!





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# 4. THERE IS A LARGE GAP BETWEEN INTENTIONS... AND ACTIONS!





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#### **TROUBLE!!!**



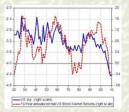
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On one hand, Financial markets are rough...



- a complex world where complex choices must be made







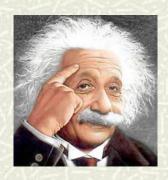




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#### On the other hand,

#### human abilities are limited



?



)



1



?



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So:

ECONOMIC PSYCHOLOGY /
BEHAVIOURAL ECONOMICS
+
FINANCIAL EDUCATION

COMPLEMENTARY WITH GREATER EFFICACY



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#### **ECONOMIC PSYCHOLOGY** – 1881

[more recently **Behavioural Economics**, Behavioural Finance, Neuroeconomics, *Applied Behavioural Science*]

- interdisciplinary field economic behaviour and decision-making
  - → anomalies, distortions in perception, memory and judgment of data
- 3 Nobel Prizes in Economics:
  - 1978 H. **Simon** → *bounded rationality*
  - 2002 D. Kahneman → prospect theory



- 2013 – R. **Shiller** → *financial markets and bubbles* 





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#### **EMOTIONS and IMPULSES**

#### are VERY powerful



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# Not only **GREED** and **FEAR**...



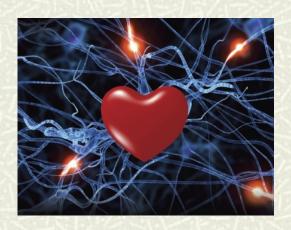
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# EMOTIONS and IMPULSES are FAR MORE powerful than REASON is



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# THINKING IS A RECENT ACHIEVEMENT! AND STILL RATHER UNSTABLE! IT MAY 'COLLAPSE' ANY TIME...



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#### It is *as if* there were 2 of us in our mind!

hot self

impulses – fast

puises rast

action

automatic

doer

short range

**PSYCHOLOGY** 

cold self

vs. *ponderation – slow* 

vs. reflexive

vs. intention

planner

long range

**EDUCATION** 







VS.

VS.

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# THIS IS WHY IT IS RELEVANT TO UNDERSTAND THE INVESTORS' MIND

THUS, DESIGN
[MORE] EFFICIENT
FINANCIAL EDUCATION
PROGRAMS FOR THEM



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btw, that includes **protecting** the investor against **HIM/HERSELF** as well!!!

fraud, scams, Ponzi schemes are not the only threats to be addressed...



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# The Homer Simpson\* living [more or less] secretly inside us is always lurking...

\*[or the chimp, or the baby — unfortunately, less often the Einstein...]









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#### It's a tough struggle!



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we need all the help we can get! the fantastic quartet psychological insights financial education consumer protection regulation



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- investors are driven by major psychological forces
  - and there are several implications resulting
     from these tendencies...



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- investors are driven by some major **psychological forces**:

- constant search for comfort and relief

[from tension, distress, anxiety]





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- investors are driven by some major psychological forces

#### **IMPLICATIONS**

constant search for comfort and relief
 [from tension, distress, anxiety]



If no immediate solution is to be found in reality → resort to illusions



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- investors are driven by some major **psychological forces**:

 enormous loss and frustration aversion





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- investors are driven by some major psychological forces

#### **IMPLICATIONS**

- enormous loss and frustration aversion



In order to try and avoid losses → run more risks in the name of 'attempting to recover what's been lost' [or is in danger of being lost] – while unaware of it...



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- investors are driven by some major psychological forces:

uncertainty and ambiguity
 are equally hated



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- investors are driven by some major psychological forces

#### **IMPLICATIONS**



- uncertainty and ambiguity are equally hated
- so simple perspectives and alternatives will be preferred – even when what they may yield does not amount to much
  - or worse, when they involve risk



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- investors are driven by some major **psychological forces**:

 also hated → the very act of making decisions!





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- investors are driven by some major psychological forces

#### **IMPLICATIONS**



- also **hated** → the very act of making decisions!
- then procrastinate, do nothing, push the final decision to others [later on, to be blamed if it doesn't work out...], or choose just about anything, only to get rid of [the distress caused by] the situation



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#### **AS A RESULT...**

# bounded rationality



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#### **AS A RESULT...**

#### and emotions riding again!



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#### human abilities are limited

we're VERY suggestible ...and gullible ...and vulnerable





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#### human abilities are limited

#### selective attention





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#### human abilities are limited

social pressure / herding behaviour





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human abilities are limited

## EXCESSIVE

pessimism...



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human abilities are limited

## EXCESSIVE

pessimism...

optimism...



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human abilities are limited

## EXCESSIVE

pessimism...
optimism...

self-confidence...



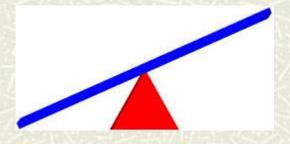
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human abilities are limited

## EXCESSIVE

pessimism...
optimism...
self-confidence...





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#### human abilities are limited



euphoria

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#### human abilities are limited



panic

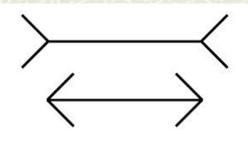
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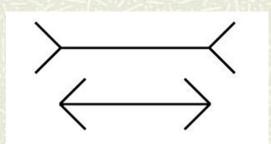
#### human abilities are limited

## problems perceiving and assessing data





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And we don't have only optical illusions!

We also have **cognitive** and **emotional illusions** → they interfere with the ability to **judge** data



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# HOW DO INVESTORS HANDLE ALL THAT?



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#### HOW DO INVESTORS HANDLE ALL THAT?

- they simplify all they can and some more too, while perceiving and assessing data, perspectives, options
- → but... over the process of simplifying, precision is lost!
- → and inadequate choices may follow...



though their single Wish is to always have everything work out as fine as possible!



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# And the root of all simplification is... emotional!



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because this is the **first step** to judge all kinds of data: an **EMOTIONAL stoplight!** 



if seems **unpleasant** = good-bye! [disregarding consequences]



if seems **pleasant** = welcome! [even when only an illusion...]

And this **automatic**, unconscious and rudimentary 'assessment' considers only the **short range**!



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So, all these actual features of the investor's mind ought to be considered when the goal is to change behaviour towards enhanced decision-making skills and better choices



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## AND HOW CAN EFFECTIVE BEHAVIOURAL CHANGE BE ACHIEVED?

- √ psychological limitations must be considered
- √ accuracy in mental operations can't be taken for granted
  - but **emotions** should, because they're always **present**!
  - preferences are not consistent
- √ the hot self and groups [herding is powerful!] are the targets
  - since they're the actual **doers** most of the time
  - however, they're **not** too **good** as far as **learning** goes...



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#### FINANCIAL EDUCATION + ECONOMIC PSYCHOLOGY: 'DO'S'

- 1. clear language √
- **2.** examples and **narratives**  $\sqrt{\phantom{a}}$
- 3. different delivery channels √
- **4.** relevant, tailor-made and timely info on the psychology of **economic behaviour** and **decision-making** √
- **5.** warnings against **fraud** √
- **6.** careful **maintenance** and constant updating √
- 7. checklists √
- 8. multidisciplinary approach √

- 9. exchange experience √
- **10.** specific formatting for **different segments** √
- **11.** good timing **learning opportunities** √
- **12.** coherence √
- **13.** *crowdsourcing* − investors  $\sqrt{\phantom{a}}$
- **14.** internet and social media  $\sqrt{\phantom{a}}$
- **15.** choice architecture √
- 16. 'MANTRA': KEEP IT SIMPLE √
  - [a.k.a., the **HUGE** challenge here...]



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#### FINANCIAL EDUCATION + ECONOMIC PSYCHOLOGY: 'DON'T'S'

- getting carried away with jargons and abstractions ⊗
- **2. too much** information ⊗
- **3. too many** options ⊗
- **4.** excessive **complexity** ⊗ → *HUGE challenge here...*
- 5. 'loose' − i.e., out of context − recommendations & warnings ⊗
- 6. solely **logical** explanations ⊗
- 7. 'one size fits all' &
- 8. obsolescence 8



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## BUT ONE THING IS FOR SURE: IN ORDER TO ACHIEVE EFFECTIVE BEHAVIOURAL CHANGE...

...different strategies must be devised to move beyond the simple presentation of technical information and advice



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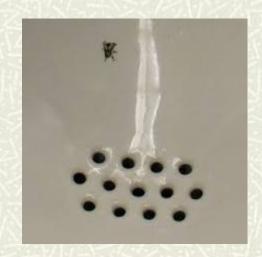
#### CHOICE ARCHITECTURE -> NUDGE

- recent research line
- designing policies to help make those choices
   more successful > NUDGES > fool proof contexts
  - strategies to encourage better decision-making by turning limitations into advantages **not** compulsory! with **opt-out**
  - to qualify as NUDGE
    - low cost
    - simple
    - mass scale



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## famous **NUDGE** to keep male public bathrooms more decent...





[Schiphol airport, Amsterdam]



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#### CHOICE ARCHITECTURE -> NUDGE

What would your meal be like if it started like this?





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#### CHOICE ARCHITECTURE → NUDGE

And what if it started this way?







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#### CHOICE ARCHITECTURE → NUDGE

Or this??





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#### CHOICE ARCHITECTURE → NUDGE

If the goal is to stay healthy and/or lose weight...



the <u>nudge</u>, here, has been to start with healthy options

– though one could always skip them, and go straight to the greasy fattening stuff!



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#### CHOICE ARCHITECTURE → NUDGE

Choice architecture is everywhere — and has been around forever...

#### - novelty:

# CAN IT BE USED TO BENEFIT THE DECISION-MAKER? i.e., investors



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#### CHOICE ARCHITECTURE AND INVESTOR EDUCATION

#### For instance:

- In light of behavioural findings, start by **analyzing** the **current choice architecture** used by the industry and regulators
  - what have investors been 'nudged' towards doing regarding practices, norms etc.?
- then, afterwards, discuss, test and consider what and how things could be changed wherever necessary



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## CVM — Behavioural Studies Center — new! [NEC-Núcleo de Estudos Comportamentais]

- team of behaviour specialists: economic psychology,
   behavioural economics, neuroscience, cognitive and
   social psychology, education
- in light of behavioural studies, provide insights, suggestions, criticism, recommendations and technical support towards enhancing efficiency and efficacy of educational policies, as well as information and guidance for investors





#### **VERA RITA DE MELLO FERREIRA**

**VÉRTICE PSI** Psicologia Econômica – um vértice psicológico para pensar perspectivas, decisões, arquitetura de escolha e políticas VERTICE PSI Economic Psychology – a psychological outlook for perspectives, decision-making, choice architecture and policy

#### THANK YOU!

- Ph.D. in social psychology (PUC-SP), Economic Psychology independent consultant (policy-making: Behavioural Studies Center-NEC, at CVM, ENEF-National Strategy for Financial Education, NUMIP-Economic Psychology and Financial Education Interactive Center at the Brazilian Central Bank Money Museum, and other organizations), Lecturer (FIPECAFI), Psychoanalyst (Inst. Sedes Sapientiae)
- Speaker; Coordinator of economic psychology study and work groups
- Member of **ICABEEP-** The International Confederation for the Advancement of Behavioral Economics and Economic Psychology Executive Committee and IAREP-International Association for Research in Economic Psychology Representative in Brazil
- Author of articles published in Brazil and abroad, and the books:









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