June 21, 2011 (Tuesday) 55th EOQ Congress

CONCURRENT SESSIONS KEMPINSKI HOTEL CORVINUS Tuesday 13:30 – 17:30 Erzsébet tér 7-8, Budapest V.

SALON REGIOMONTANUS

Tuesday 13:30 – 15:00

15.1. CORPORATE SOCIAL RESPONSIBILITY AND SUSTAINABLE DEVELOPMENT I.

Session Chair: Alexandros Antonaras, University of Nicosia, Cyprus

14.10 How the Construction Industry is Able to Build a Sustainable World *Joal Teitelbaum, Best Home, Teitelbaum Engineering, Brazil*

Teitelbaum, Joal (Brazil), Member of the International Academy for Quality (IAQ)

Civil Engineer graduated at UFRGS-Brazil in 1960; next year he founded own firms being their President, acting at construction, design, planning, management, consulting and environment on the civil engineering field. His organization is the only Brazil's construction firm considered "World Class" as a winner of the National Quality Award, 2003. He also received all levels recognition of the Quality and Productivity Program – bronze, silver, gold and diamond -, five awards from National Industry Confederation of Brazil for its process in sustainability and environment, as well as several other awards and medals.

In his institutional activities Joal Teitelbaum was vice-president and he represented the Brazilian Chamber of the Construction Industry from 1978 to 1995 at the Inter American Federation and the World Confederation of the Construction Industry and from 1991 to 1995; he represented the Construction Industry at the Brazilian Program of Quality and Productivity. In 1996 he was elected President of the Brazil-Chile Chamber of Commerce and Industry and of the South America Integration Routes Committee, being President from the two organizations until today. In 2010 he became also International Vice President of the Superior Council. Since 2007 he is one of the three Brazilians that are Academicians at the International Academy for Quality (IAQ).

Joal Teitelbaum has more than 300 works published in books, essays, magazines, newspapers, related to construction industry, management, quality, governance, sustainability, innovation, social responsibility, some of them at the Congress Library. He has been keynote speaker in many Conferences worldwide.











55th EOQ CONGRESS, BUDAPEST, HUNGARY "WORLD QUALITY CONGRESS"

"NAVIGATING GLOBAL QUALITY IN A NEW ERA"

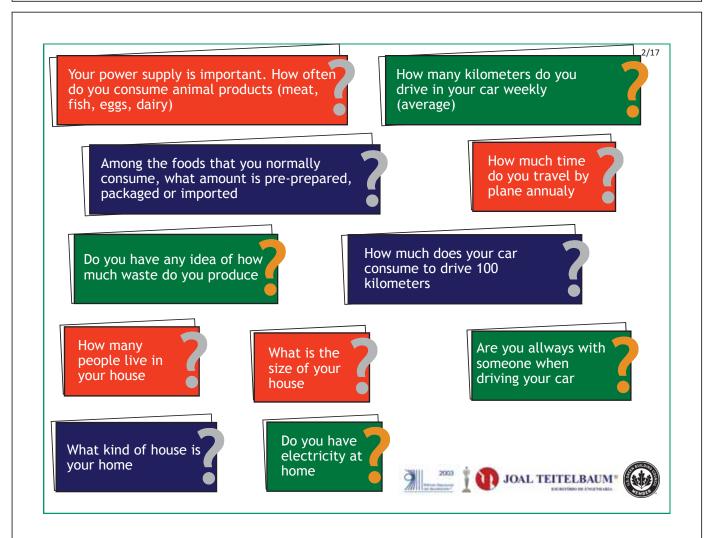
QUALITY IN THE CONSTRUCTION INDUSTRY

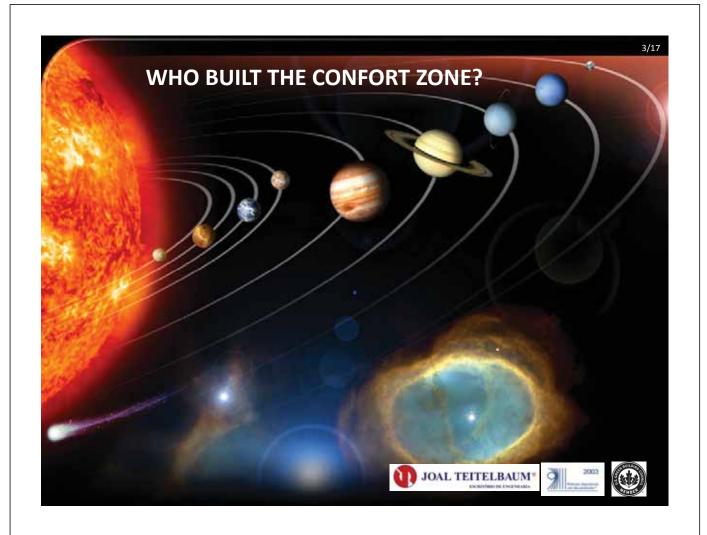
HOW THE CONSTRUCTION INDUSTRY IS ABLE TO BUILD A SUSTAINABLE WORLD

IN OTHER WORDS, THE WELFARE OF OUR PLANET

JOAL TEITELBAUM, c.e.

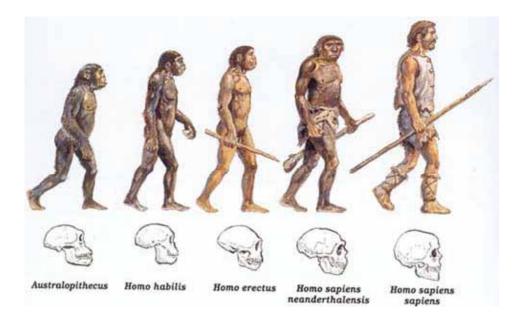
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CREATION + EVOLUTION + INNOVATION+CHANGES

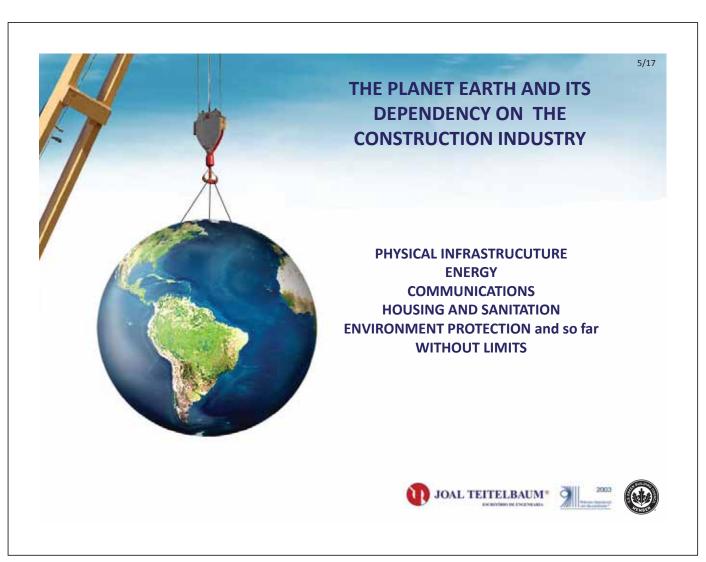












PRIOR FACTORS CONDUCT TO SUSTAINABILITY SITE PLANNING ENVIRONMENTAL WATER MANAGEMENT M

FIFTY YEARS OF EXPERIENCY





INOCON
Construction Innovation

PGQP

ENVIRONMENT

CONSERVE Construction Serving Environment

PCD
Continuous Developing Process









8/17

THE LAST 200 YEARS OF THE CONSTRUCTION INDUSTRY

















FROM EMPIRIC PROCESSES UNTIL TO BE A COLUMN OF HARMONIC DEVELOPMENT THROUGH SQI – STRUCTURED QUALITY INNOVATION $CISQI = \{(I + S) \cdot P\} : W < = 100$

Where:

CISQI = Construction Industry Structured Quality
Innovation

I = Innovation Component

S= Sustainability Component

I + S = 100

P= Productivity Factor < = 1 (0.98 to 1,00 our parameter)

W = Waste Factor 1 < 1.05 (1.01 to 1,02 our parameter)















10/17

HOW IMPORTANT IS THIS EQUATION?

Innovation is a market factor and Sustainability we may say that is a Responsibility Factor.

Productivity is a Competitiveness Factor and Waste is a Management Factor.

For example: P = 95 W = 1.08

CISQ = $\{(30 + 70) \times 0.95\} : 1.08 = 87.96$

Comparing with a Maximum of 100 points that means a loss of 12.04 points or 12,04%.

Who will pay for this? The Entrepreneur and the Customer pocket as well as the Planet Earth











CONSTRUCTION INDUSTRY: A PRESENT AND FUTURE FORCE THROUGH PRIVATE AND PUBLIC SECTORS







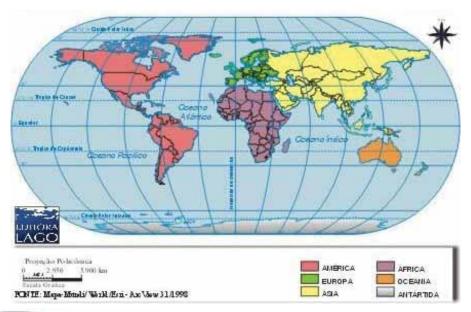




12/17

THE MYTH OF OVERPOPULATION

■50 X 70 Km=3.5 billions m2











14/17

Your power supply is important. How often do you consume animal products (meat, fish, eggs, dairy)

Frequently. Meat once or twice a week

Among the foods that you normally consume, what amount is pre-prepared, packaged or imported

Almost every food

How many kilometers do you drive in your car weekly (average)

500 km or more

How much time do you travel by plane annualy 25 hours

Do you have any idea of how much waste do you produce I produce a lot of waste and don't recicle it How much does your car consume to drive 100 kilometers

9.5-12 liters

How many people live in your house One person

What is the size of your house 90-120 square meters

Are you allways with someone when driving your car Ocasionally, around 25%.

What kind of house is your home

Apartment

Do you have electricity at home **Yes**









If your answers are mostly like these and if all of us had a footprint like that, we would need 9,9 Earths to live and survive !!!



16/17

QUALITY OF LIVING AND QUALITY OF LIFE: THE AIM OF THE CONSTRUCTION INDUSTRY SHOULD BE: THE QUALITY AT THE CONSTRUCTION INDUSTRY IS THE INTANGIBLE FORCE THAT MAKES A BETTER WORLD TANGIBLE $CISQI \ = \{(I+S) \ . \ P\} : W \ = 100$





















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"WORLD QUALITY CONGRESS"

"NAVIGATING GLOBAL QUALITY IN A NEW ERA"

QUALITY IN THE CONSTRUCTION INDUSTRY HOW THE CONSTRUCTION INDUSTRY IS ABLE TO BUILD A SUSTAINABLE WORLD

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THIS PRESENTATION WAS BUILT WITH THE SUPPORT OF THE QUALITY AND CUSTOMER RELATIONSHIP DEPARTMENT OF JOAL TEITELBAUM ENGINEERING, DIRECTED BY CLAUDIO TEITELBAUM

THANK YOU

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