

Ada Success Stories



"Nothing is more difficult to carry out, nor more doubtful of success, nor more dangerous to handle, than to initiate a new order of things. For the reformer has enemies in all those who profit by the old order, and only lukewarm defenders in all those who would profit by the new order, this luke-warmness arising partly from... the incredulity of mankind, who do not truly believe in anything new until they have had actual experience in it".

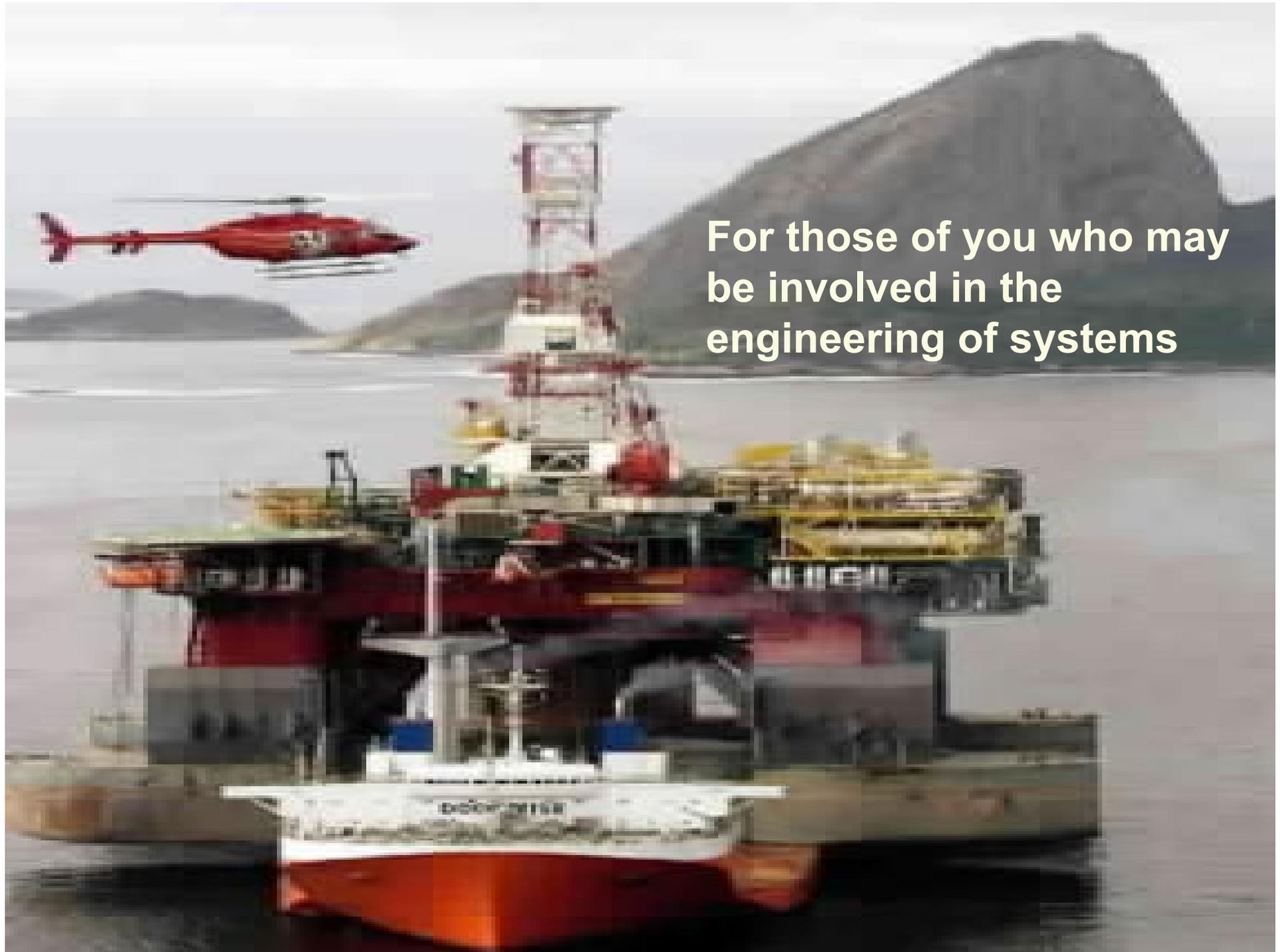
-- *Niccolo Machiavelli, from The Prince*



**How Not To Do
Systems
Engineering And
The Sinking Of
The Largest
Offshore
Oil Platform
*March 2001***

**Disclaimer:
Slides
Received
From
Unknown
Author**





**For those of you who may
be involved in the
engineering of systems**

**Please read this quote from
a Petrobras executive,**



**extolling the benefits of
cutting quality assurance
and inspection costs,**



on the project that
sunk into the Atlantic
Ocean off the coast of
Brazil in March 2001.





"Petrobras has established new global benchmarks for the generation of exceptional shareholder wealth"



through an aggressive and innovative programme of cost cutting on its P36 production facility.

**Conventional constraints have been
successfully challenged**



and replaced with new paradigms appropriate to the globalized corporate market place.



Through an integrated network
of facilitated workshops,



the project successfully rejected the established constricting and negative influences of prescriptive engineering,



**onerous quality requirements, and
outdated concepts of inspection
and client control.**





Elimination of these unnecessary straitjackets has empowered the project's suppliers and contractors to propose highly economical solutions,





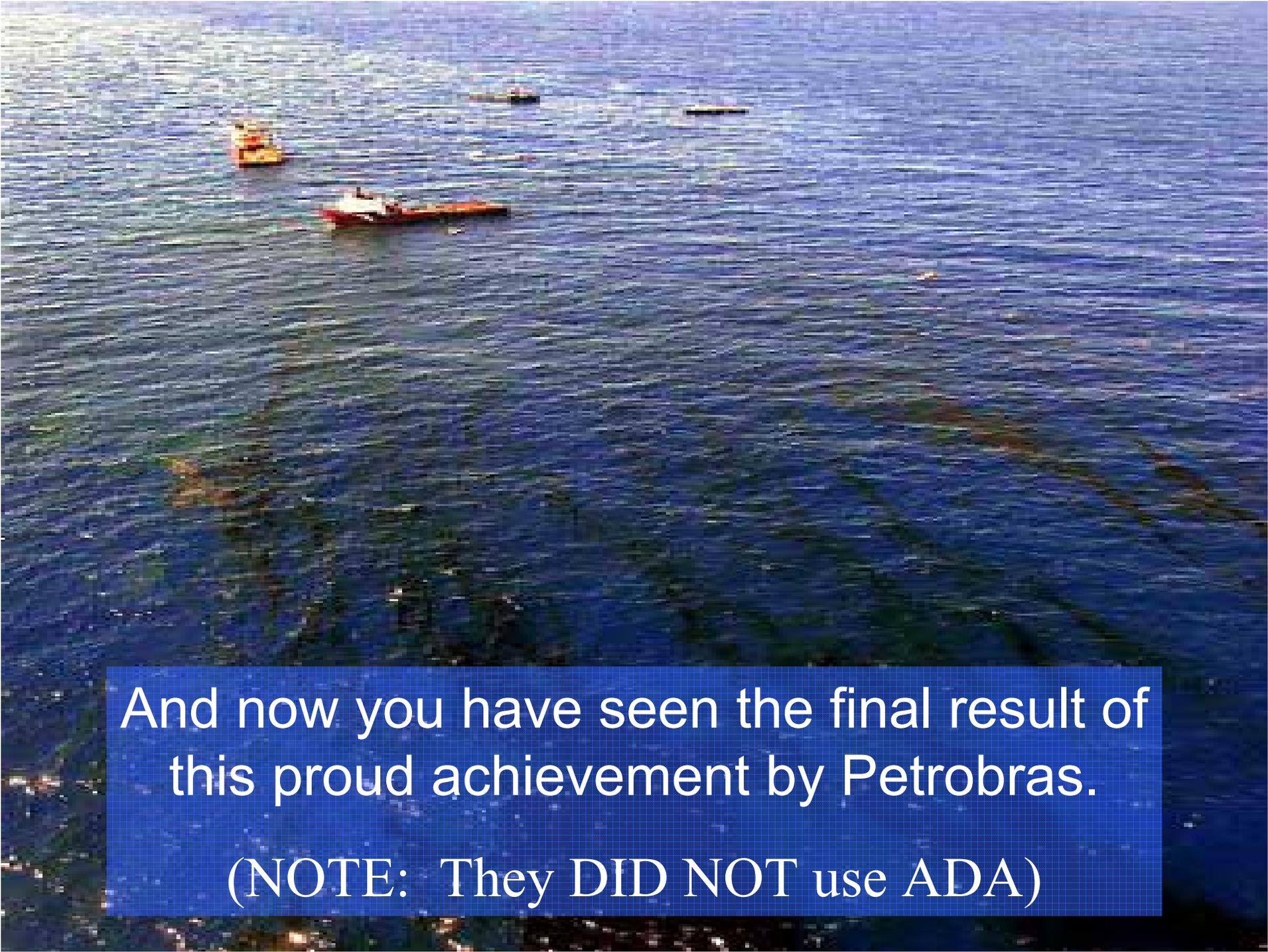
with the win-win bonus of enhanced profitability margins for themselves.



The P36 platform shows the shape of things to come



in unregulated global market economy of the 21st Century.”

An aerial photograph of a large oil spill in the ocean. The water is dark blue with a prominent, winding trail of dark, viscous oil slicks. Several large offshore oil rigs are visible in the distance, scattered across the upper half of the frame. The rigs are mostly dark with some yellow and red sections. The overall scene depicts the aftermath of a major marine oil spill.

And now you have seen the final result of
this proud achievement by Petrobras.

(NOTE: They DID NOT use ADA)

Ada Engineered Products (1)

LAMPS SH-60R ASW Helicopter



Ada Engineered Products (2)

Boeing 777 Commercial Aviation



Airbus 320
Airbus 330
Airbus 340
Beechjet 400A
Beech Starship I
Beriev BE-200
Boeing 737
Boeing 747
Boeing 757
Boeing 767
Boeing 777
Canadair Regional Jet
Embraer CBA-123
Embraer CBA-145
Fokker F-100
Ilyushin 96M
LM Hercules
Saab 2000
Tupolev TU-204



Ada Engineered Products (3) Canal+ Interactive Television

The logo for Canal+ Technologies. It features the word "CANAL+" in white, bold, sans-serif font on a black background. To the right of "CANAL+" is a solid orange square. Below this, the word "TECHNOLOGIES" is written in white, bold, sans-serif font on a black background. To the left of "TECHNOLOGIES" is a solid yellow square. The background of the entire logo area is a photograph of a hand holding a small television set, with a human eye visible on the screen.

CANAL+
TECHNOLOGIES

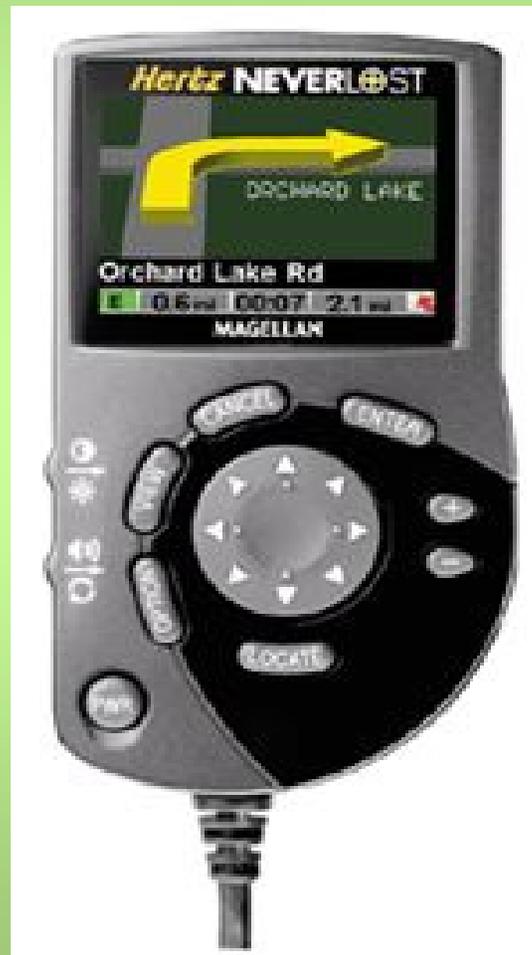
The **REAL**
difference in
Interactive
Television!

CANAL+ TECHNOLOGIES is the world's leading provider of digital broadcasting and interactive TV software solutions. Its field-proven systems are being used by more than 20 different digital operators and over 4.5 million set-top boxes based on its technologies are currently deployed.



Ada Engineered Products (4)

Hertz Neverlost



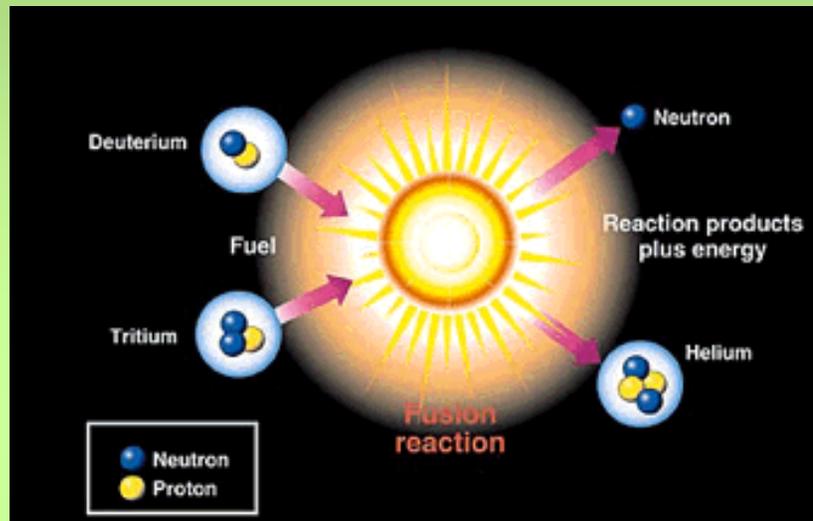
Ada Engineered Products (5)

70' Kingcat M270 Luxury Power Catamaran



Ada Engineered Products (6)

National Ignition Facility



- ✓ Inertial Confinement Fusion
- ✓ 192 Lasers (510 Meters Path)
- ✓ 1.8 megajoules
- ✓ Tiny Target – 600 μm diameter
- ✓ At Lawrence Livermore National Laboratory



Common Characteristics of Ada Applications

- ✓ Reliability is a real concern
- ✓ Control safety or mission critical applications
- ✓ Control hard real-time or near real-time application
- ✓ Reliability is a real concern
- ✓ Control highly distributed systems
- ✓ Control systems with multiple interfaces
- ✓ Reliability is a real concern

Achieved via a sound systems engineering approach

With the Ada Language as a Key Technology



If Architects used
programming languages ...



Design and Implementation with SE & Ada 95



Design(?) and Implementation without SE



The End

