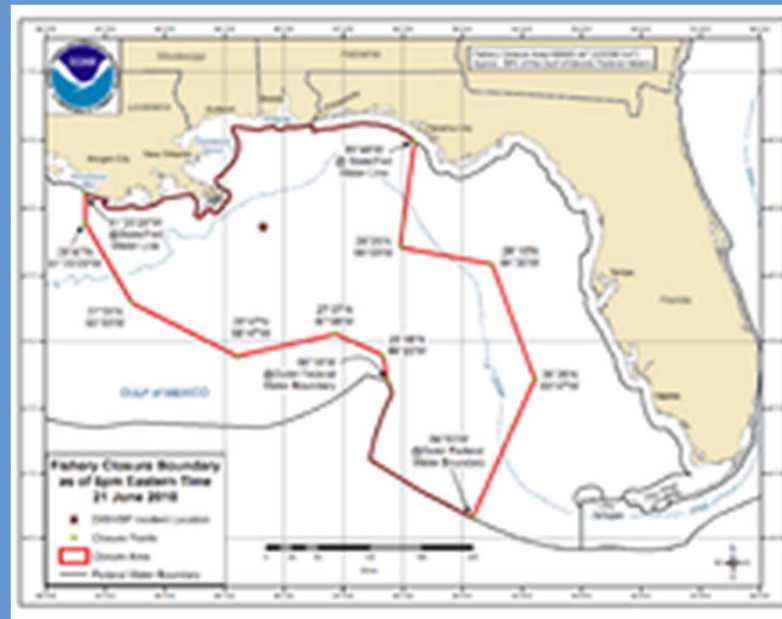


# MACONDO VIEWED FROM TWO YEARS ON

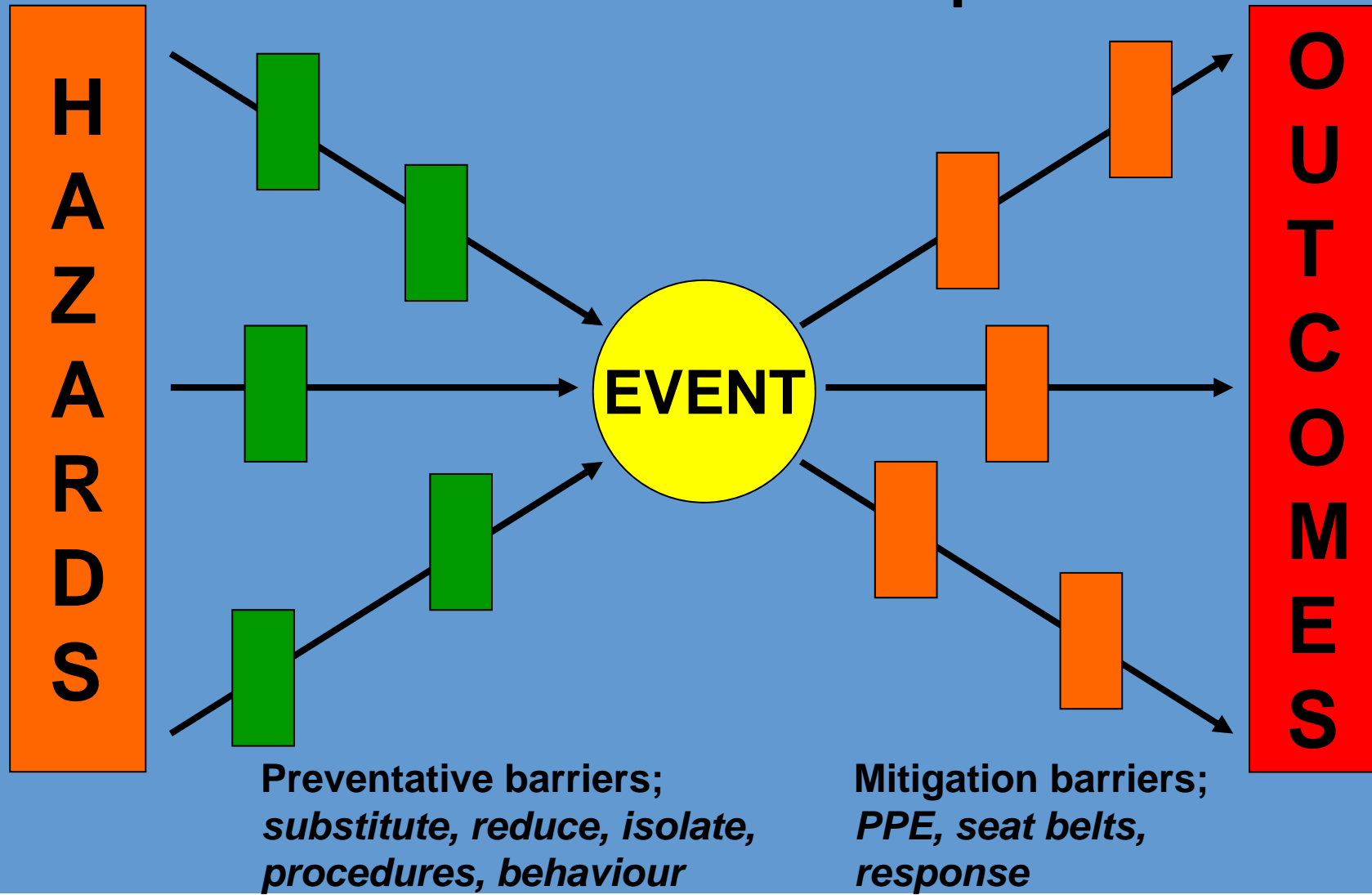
ROD THONGER  
Special Projects Director  
RPS Energy



*Images from Google*



# The Bow-Tie Concept



# UK OFFSHORE SAFETY STATISTICS

	FATALITIES	MAJOR INJURIES	>3 DAY INJURIES
--	------------	----------------	--------------------

1987/88	8	70	573
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(EXCLUDES AVIATION)

# FOLLOWING PIPER ALPHA AND LORD CULLEN'S REPORT .....

RESPONSIBILITY FOR OFFSHORE SAFETY  
REMOVED FROM DEPARTMENT OF ENERGY,  
GIVEN TO HEALTH AND SAFETY EXECUTIVE,  
OFFSHORE DIVISION

PREPARATION OF SAFETY CASE REQUIRED FOR  
ALL OFFSHORE INSTALLATIONS,  
TO BE APPROVED BY HSE<sub>x</sub>

WORKER PARTICIPATION

# UK OFFSHORE SAFETY STATISTICS

	FATALITIES	MAJOR INJURIES	>3 DAY INJURIES
--	------------	----------------	-----------------

1987/88	8	70	573
2010/11	0	39	103

(EXCLUDES AVIATION)

# CHANGES IN US LEGISLATION

FORMER "VOLUNTARY" STANDARDS BECOME MANDATORY

DRILLING SAFETY RULE

THE WORKPLACE SAFETY RULE

RISK ASSESSMENTS FOR FACILITIES, AND BRIDGING DOCS

NO SAFETY CASE

MMS BECAME BOEMRE, WHICH IS NOW SPLIT INTO  
TWO NEW ORGANISATIONS

BOEM Exploration and Development

BSEE Safety, Environment, Conservation

# BUSINESS CLIMATE

## VARIABLE

POLITICAL CLIMATE

ENVIRONMENTAL

COMPETENCE OF WORKFORCE

EXPERIENCE OF WORKFORCE

LEGAL

## FIXED

BUSINESS EFFICIENCY

ACCIDENT COSTS & DELAYS

REPUTATION

MORAL

CONTRACT TERMS



# OTHER ISSUES TO MANAGE

THE GREAT CREW CHANGE

(50% OF PERSONNEL RETIRING IN NEXT 10 YEARS)

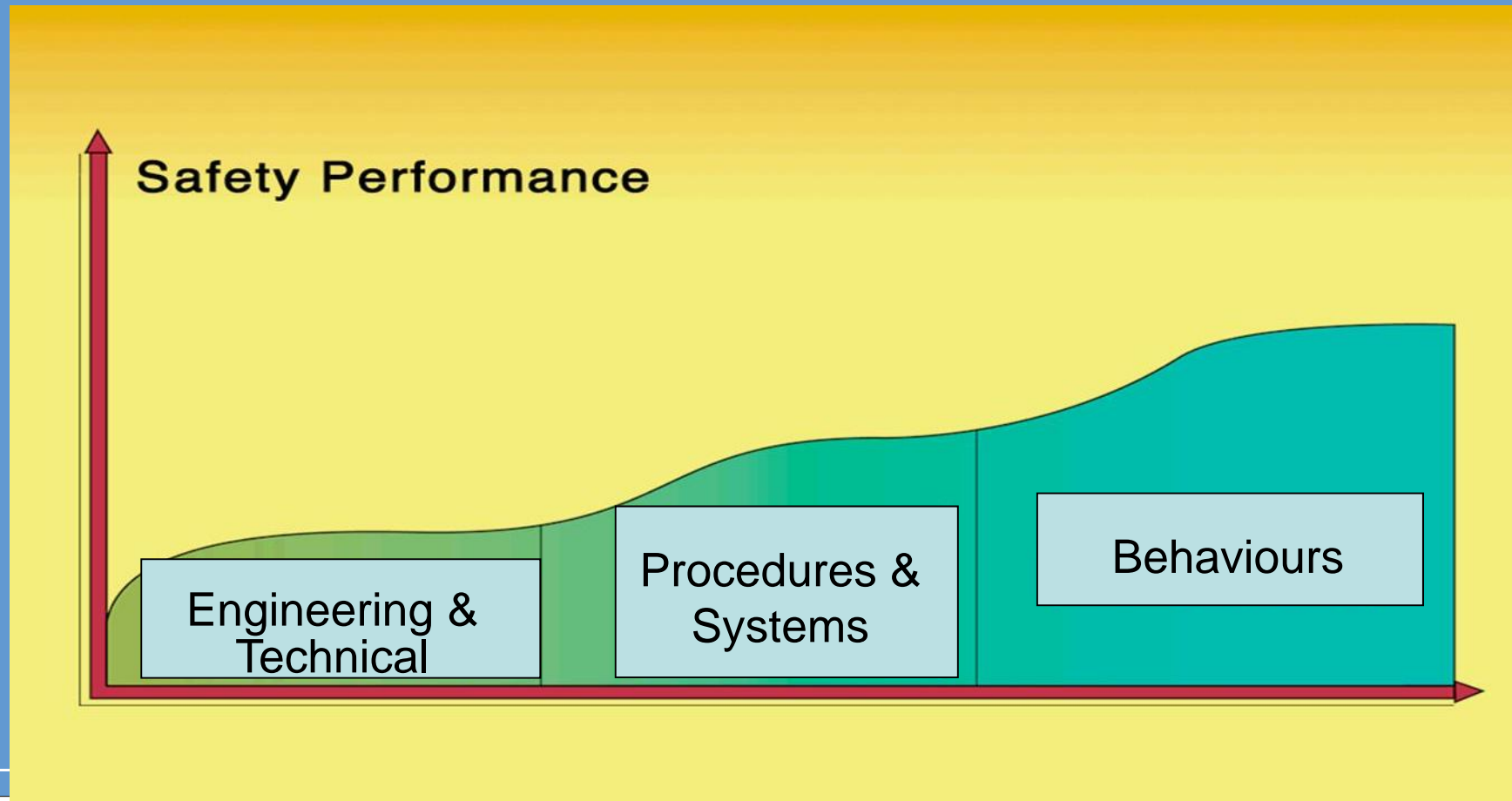
SHORTAGE OF PERSONNEL

PRACTICAL EXPERIENCE

DEEPER WELLS, MORE COMPLEX EQUIPMENT

RESERVOIRS (higher pressures, weaker formations)

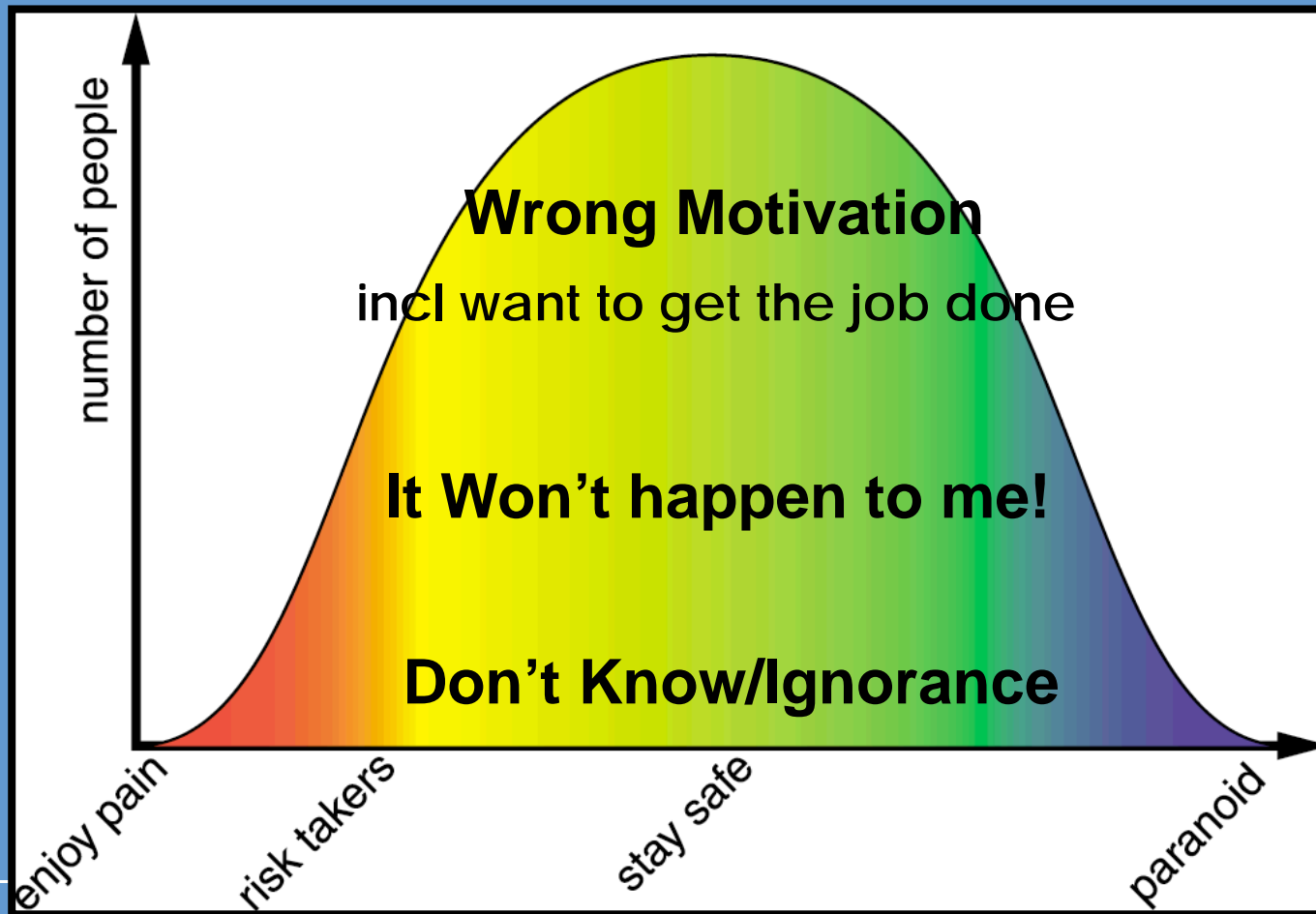
# How Things Have Got Better ... so Far



# Why Do People Take Risks?



# Why Do People Take Risks?



# Motivation Management

## Intervening with Consequences

Consequences motivate according to their Strength:

<b>STRONGEST</b>	<b>soon</b>	<b>certain</b>	<b>positive</b>
STRONGER	not soon soon soon	certain not certain certain	positive positive not positive
WEAKER	not soon soon not soon	not certain not certain certain	positive not positive not positive
<b>WEAKEST</b>	<b>not soon</b>	<b>not certain</b>	<b>not positive</b>

 Bullard Consulting  
Diverse Professionals in Education and Training

# NUDGE THEORY

Nudge: Improving Decisions about Health, Wealth and Happiness  
Richard H. Thaler and Cass R. Sunstein

The book has attracted the attention of  
Barack Obama and David Cameron

Comments vary from

*very harmless pieces of common sense*  
*To patronising and anti-libertarian*

## NUDGE THEORY **Examples**

TAX RETURNS WITH STATEMENTS  
ON PAGE 1 ENCOURAGING FULL  
DECLARATION & DUTY TO PAY TAX

HEALTH IN SCHOOL MEALS BY PLACING  
FRESH FRUIT BEFORE SWEET DISHES

SAFETY CLOTHING AND EQUIPMENT  
PLACED BESIDE PICTURES OF INJURIES

**PUTTING IN THE EFFORT**

**DOES BRING RESULTS**

**WE CAN MAKE A DIFFERENCE**

**LETS NEVER FORGET THE MANY WHO HAVE  
GIVEN THEIR LIVES TO GET US WHERE WE ARE  
TODAY**



END

# Offshore Statistics for Fires and Explosions (1996-2009) GULF OF MEXICO

Years	Fires & Explosions	Events with Injuries	Events with Fatalities	Av
1996-'02 (7)	657	47	4	94
2003-'05 (3)	246	21	1	82
2006-'09 (4)	506	7	1	126