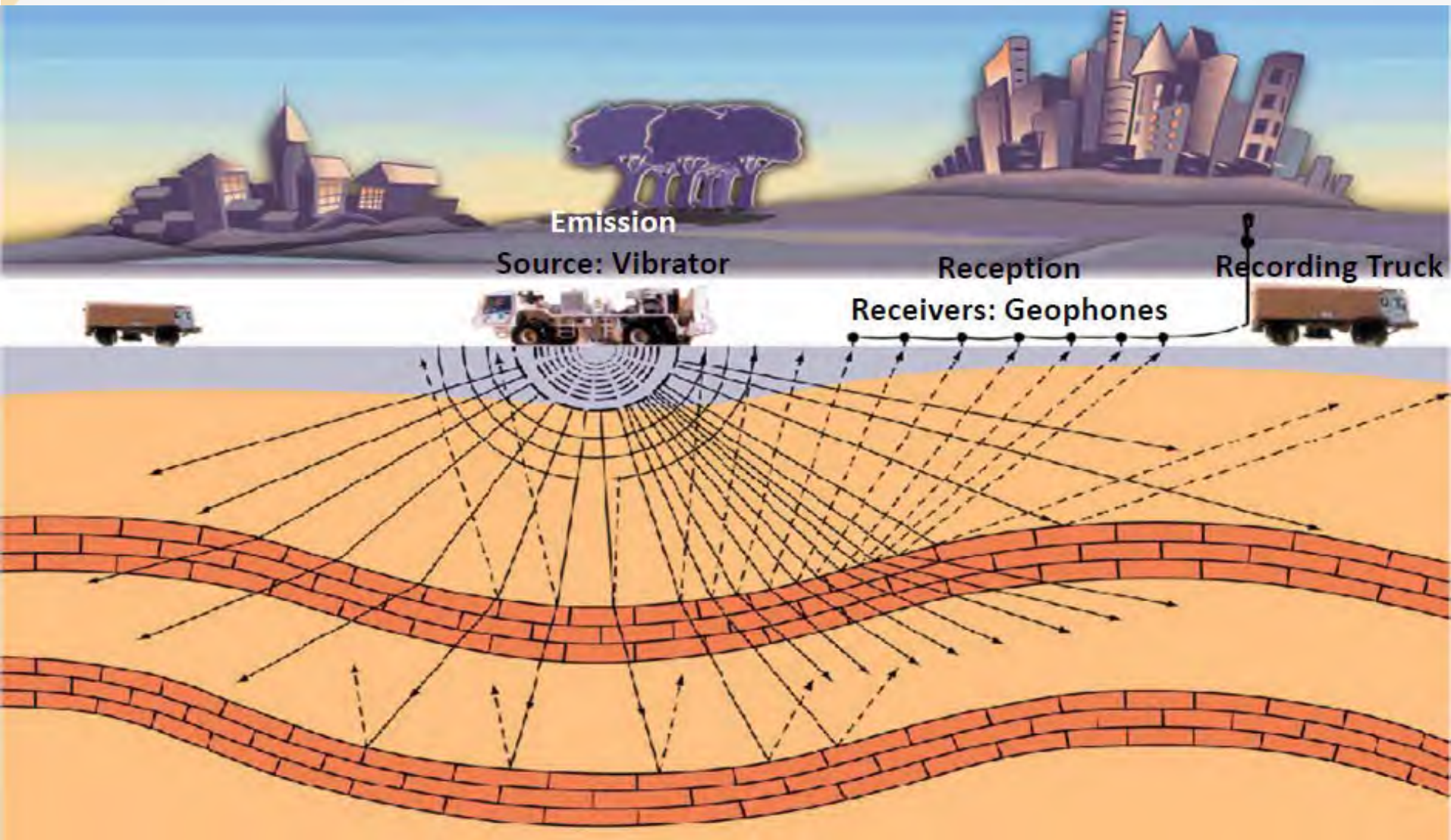
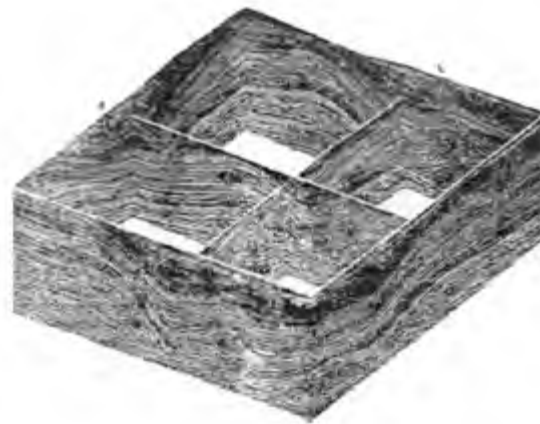


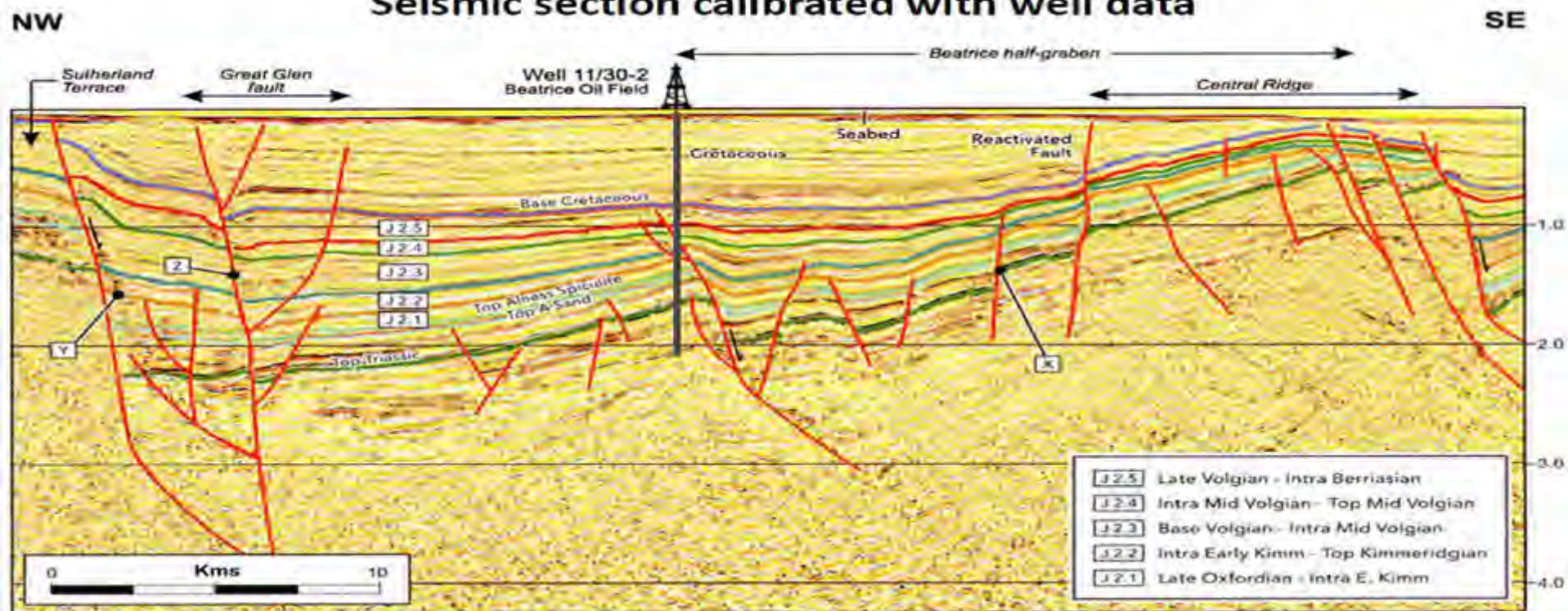
大数据如何为能源 行业带来价值

下一代
软件研发
SOFTWARE
DEVELOPMENT

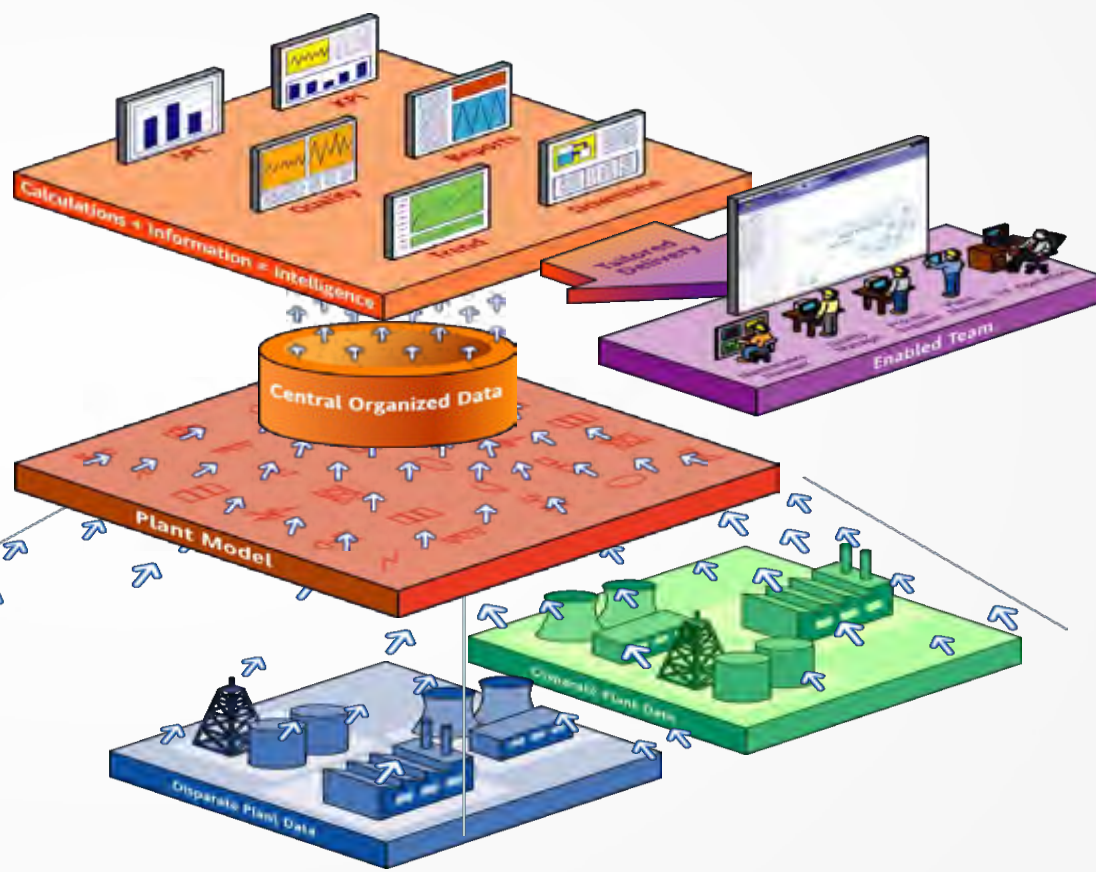




Seismic section calibrated with well data



- 应用现状
- 建议体会



能耗优化



运行优化



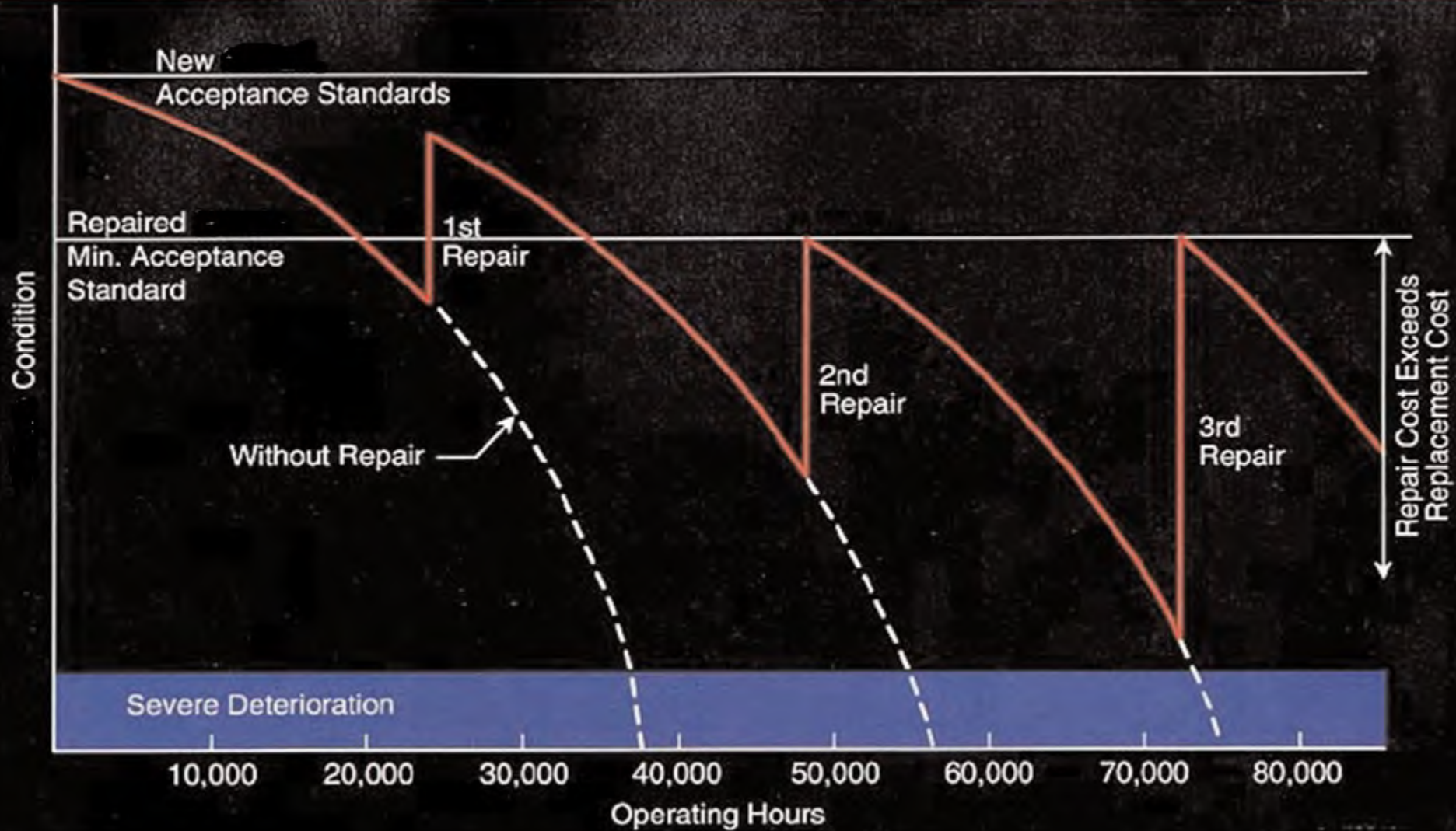
调度优化



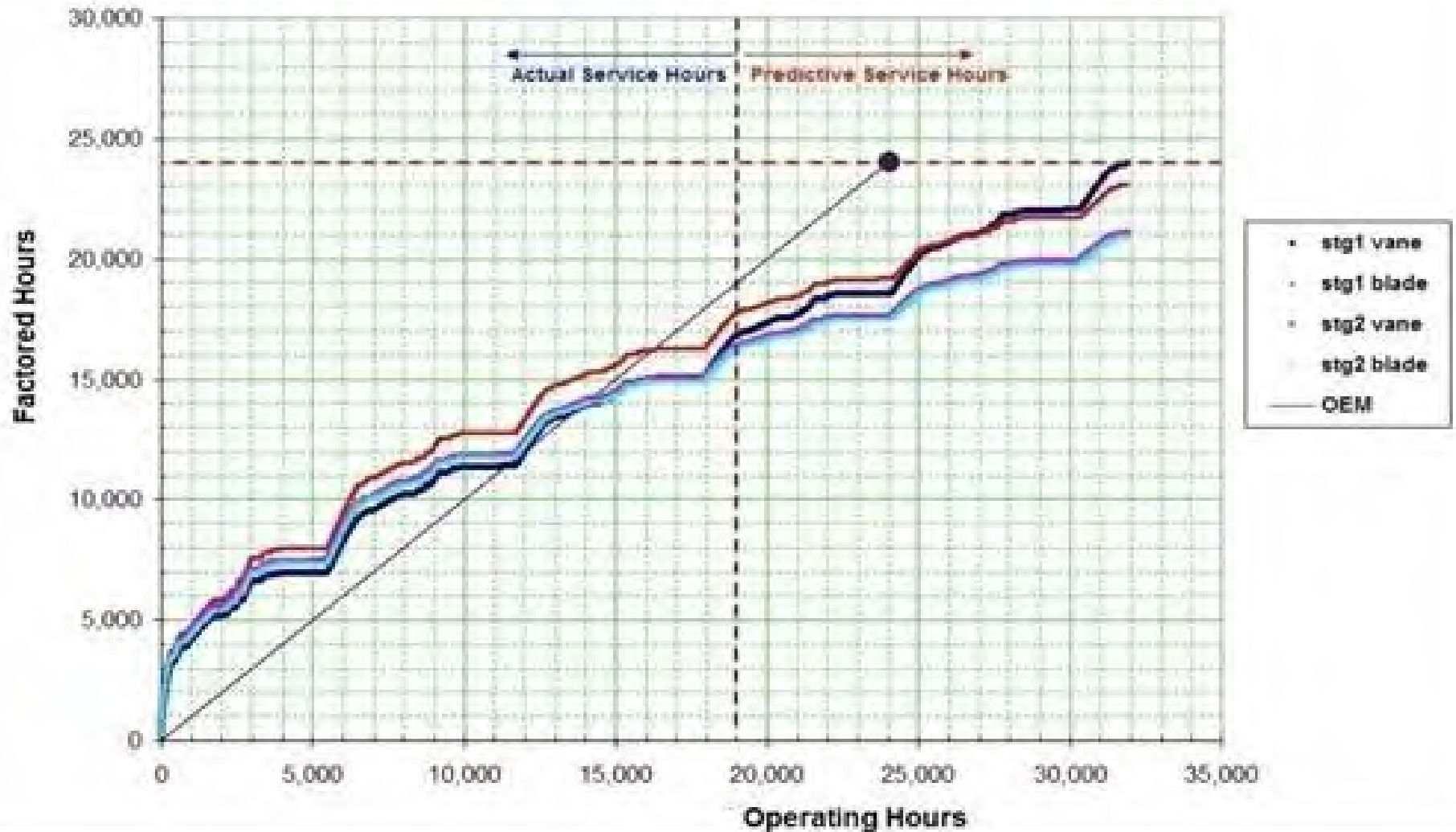
监控



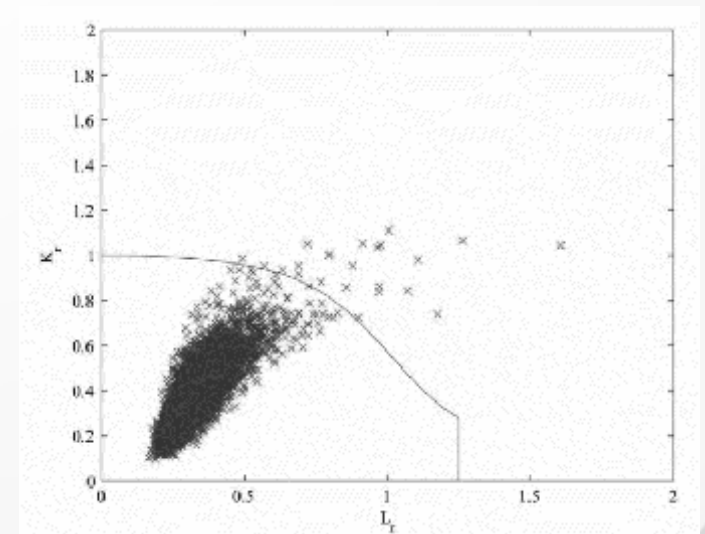
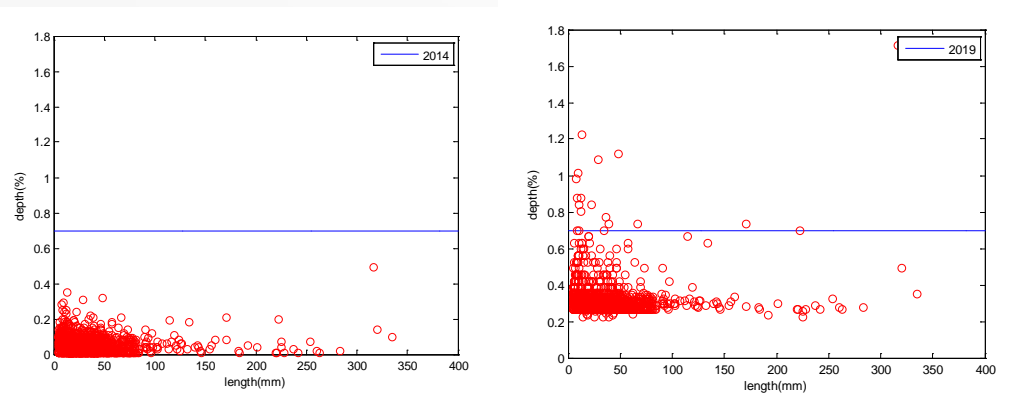
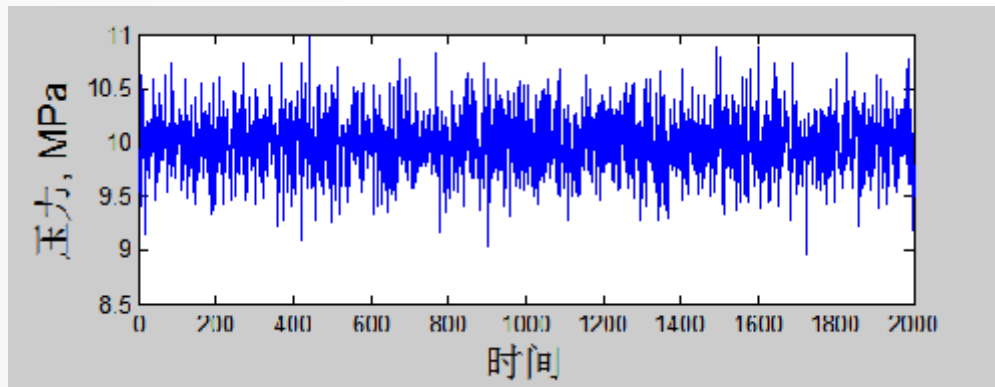
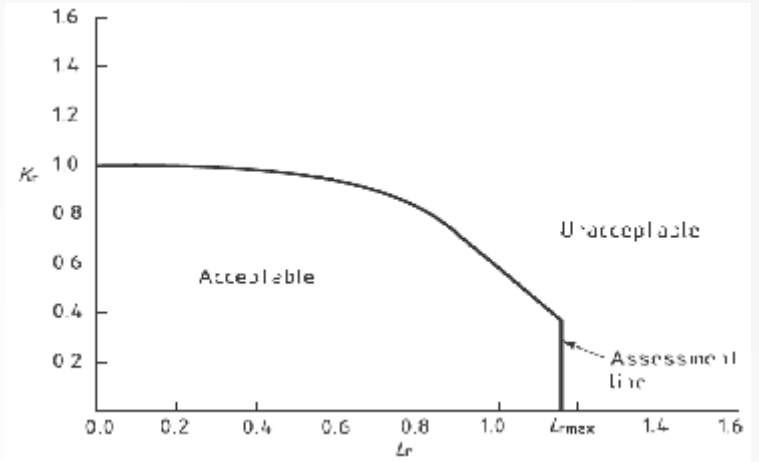
优化案例



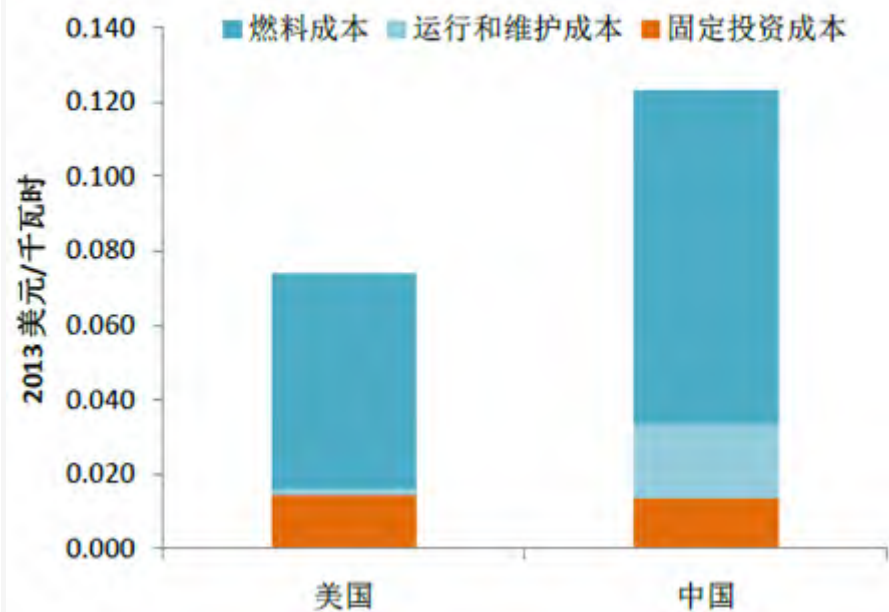
Lifing Module + Predictive Analysis



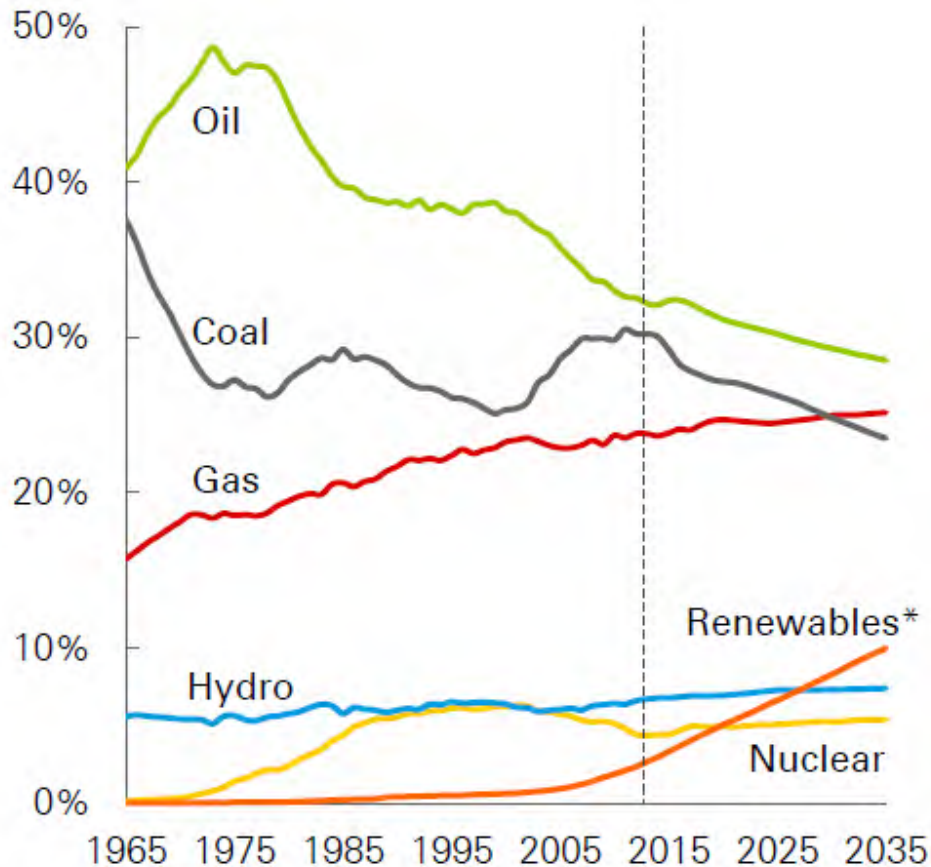




中美燃气-蒸汽联合循环机组平准成本对比



Shares of primary energy



安全



MARK WAHLBERG

WHEN FACED WITH OUR DARKEST HOUR,
HOPE IS NOT A TACTIC.



INSPIRED BY A TRUE STORY OF REAL LIFE HEROES

DEEPWATER HORIZON

FROM THE DIRECTOR OF LONE SURVIVOR

EXPERIENCE IT IN IMAX
SEPTEMBER 30

What went wrong?

The IOP report identifies eight key elements in the Deepwater Horizon drilling operation - each of which could have prevented the disaster

1 The cement that was supposed to stop oil and gas reaching the well pipe casing did not work. The report blames the type of cement used



3 Staff misread a key pressure test thinking high readings were an error



5 Once oil and gas started flooding to the surface, they were not diverted offshore but swept on to the rig



7 The fire prevention system on the rig failed. The report says the 'heating, ventilation and air conditioning system ... transferred a gas-rich mixture into the engine rooms'. Two huge explosions followed, killing 11 crew members



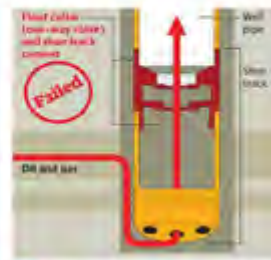
The key times

20 April 9:40pm
Report: 'This was a failure of the ... system'

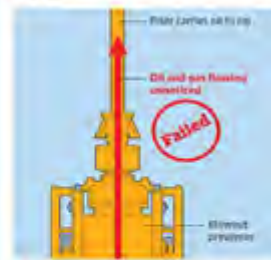
20 April 9:43pm
Report: 'The fire and gas system did not prevent ... incident'



2 The cement and valve at the bottom of the drill pipe failed to stop oil and gas bursting into the well pipe



4 Oil and gas were now pouring up the well, but it took 40 minutes for this to be noticed



20 April 9:50pm
Report: 'Big test did not overcome the inflow'



6 The oil and gas 'vented directly on to the rig'. This made an explosion inevitable

20 April 7:55pm
Report: 'Site incident started the incident's value'



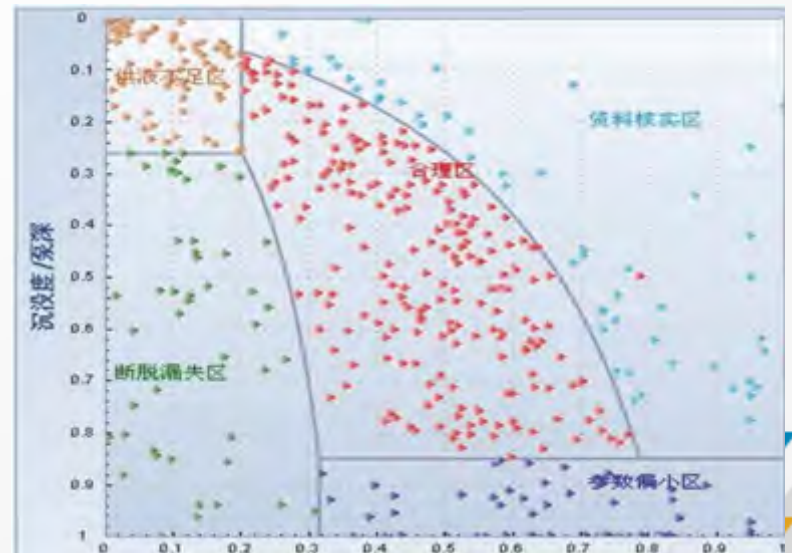
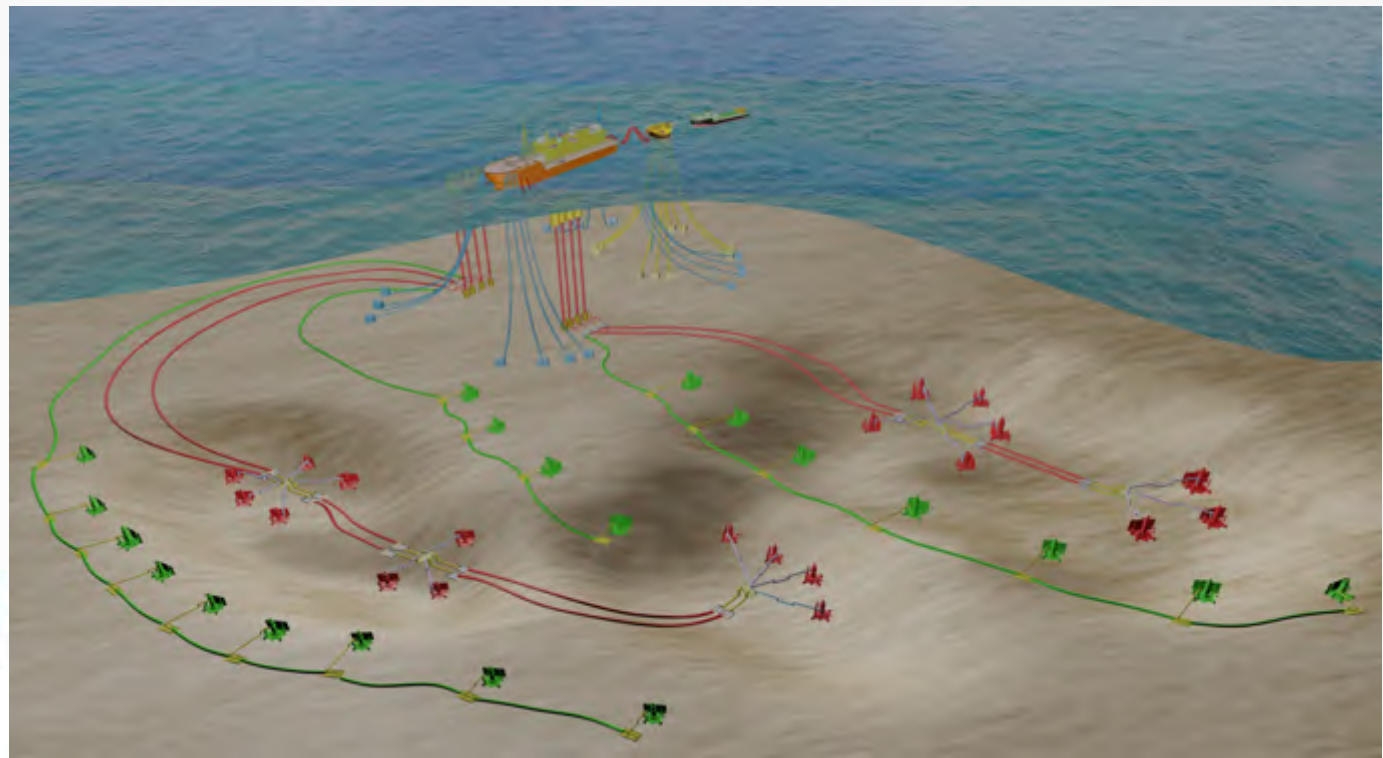
8 The 'failsafe' blowout preventer (BOP) failed. Fire on the rig stopped it being remotely shut down, while an automated system also failed. The BOP had flat batteries in one control pod and a faulty solenoid valve in another

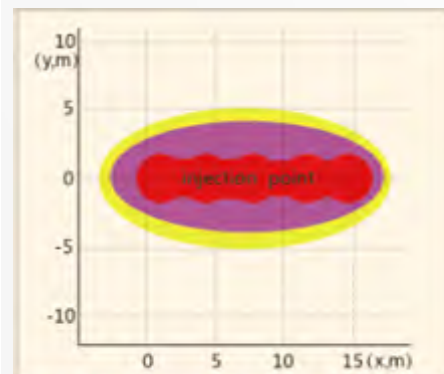
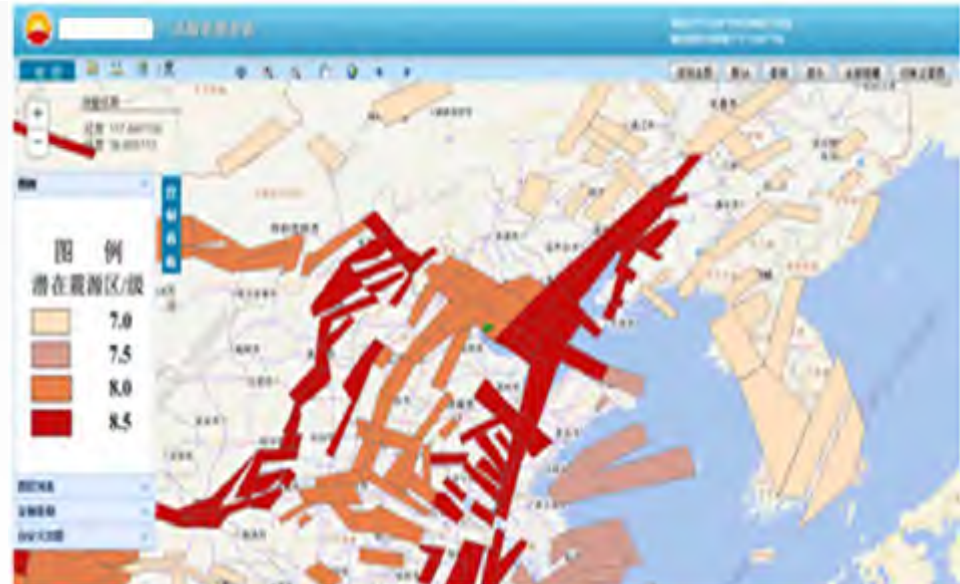


19 April 7:50pm - 11:45am
Report: 'There were significant errors in cement design'

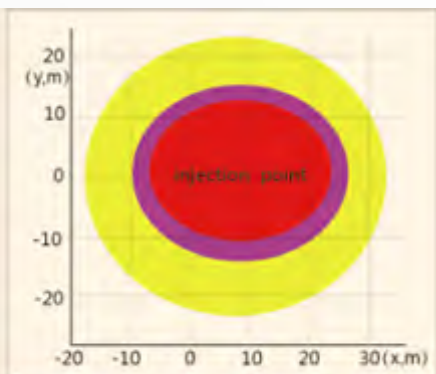
20 April 4:30pm
Report: 'The investigation team identified ... failure'

ILLUSTRATION: JAMES HARRIS





喷射火风险可能造成的财产损失范围



喷射火风险可能造成的人员伤亡范围



大宗商品

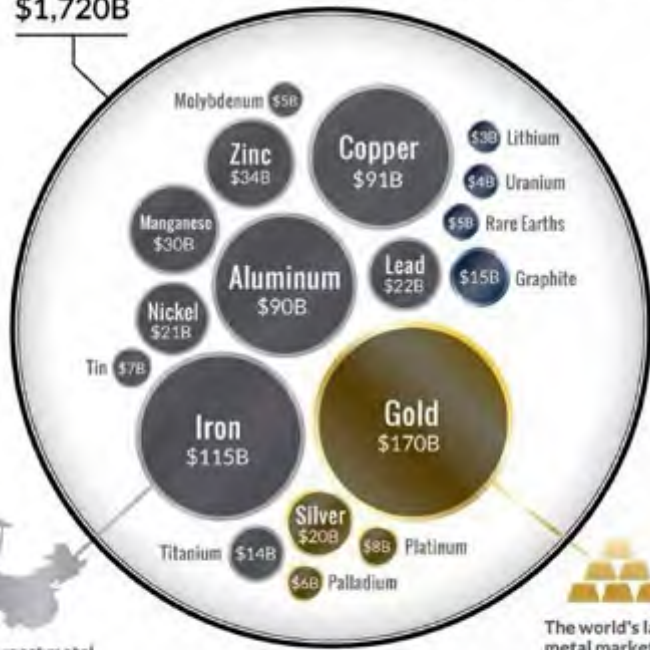
BIG OIL

The crude oil market is bigger than all raw metal markets combined

Oil
\$1,720B

The global market for crude oil was 94 million barrels per day in 2015.

This puts the crude oil market at \$1.7 trillion per year with today's prices - far more than all raw metals combined!



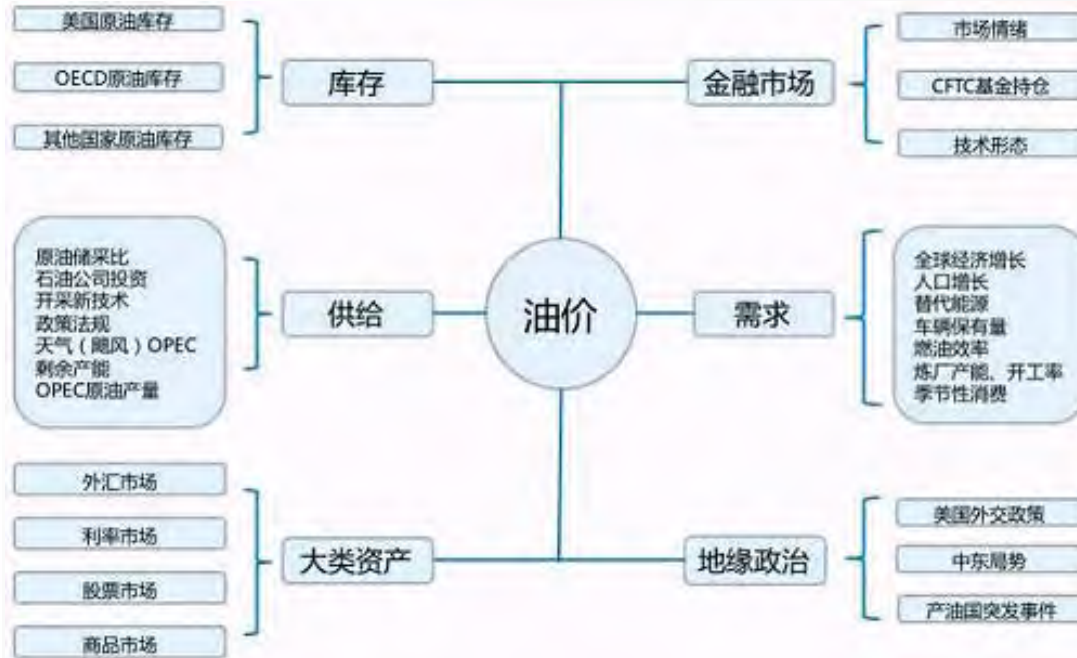
The largest metal market by tonnage is iron ore.

China alone consumes 1 billion tonnes per year mostly to produce steel.

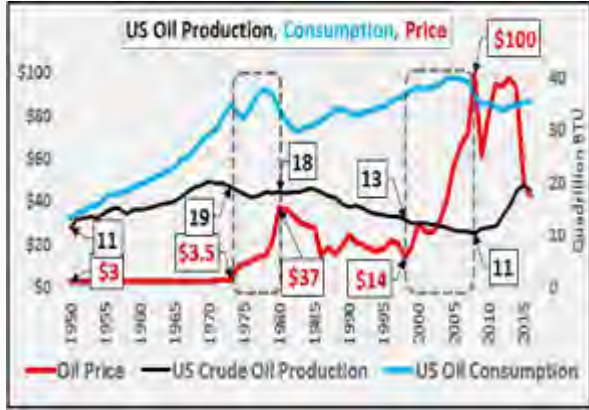
The world's largest metal market by dollar value is gold.

The physical market is worth \$170 billion per

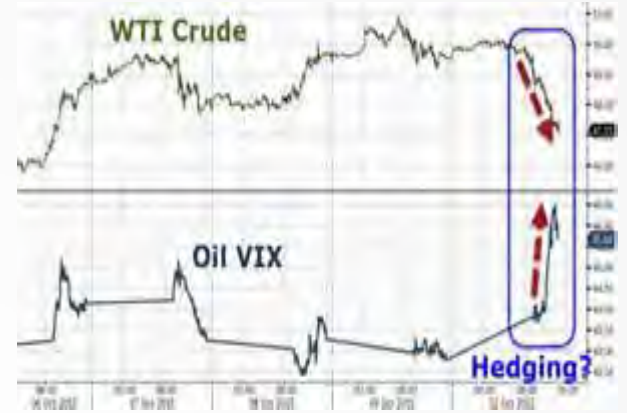
weibo.com/u/5393673554



量化策略



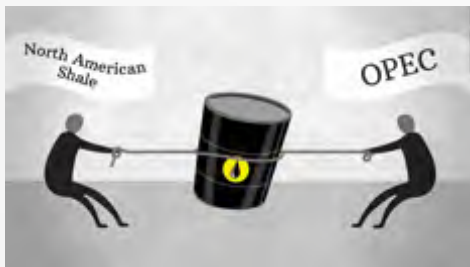
战略对冲



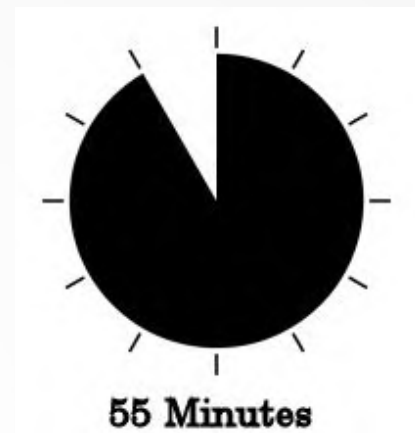
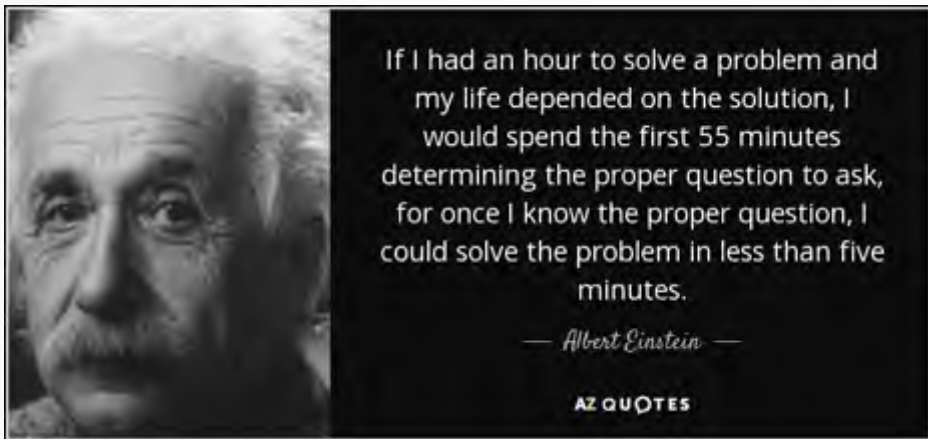
深度学习



投资并购



- 应用现状
- **建议体会**



行业理解

性能管理

运行优化

能源分析

维护优化



数据工具

资产链接

能源数据管理

能源数据科学

云和移动端

The Economist

- Crunch time in France
- Ten years on: banking after the crisis
- South Korea's unfinished revolution
- Biology, but without the cells

The world's most valuable resource



Data and the new rules of competition

The Economist

- Obama the warrior
- Misgoverning Argentina
- The economic shift from West to East
- Genetically modified crops blossom
- The right to eat cats and dogs

FEBRUARY 23RD - MARCH 5TH 2010

Economist.com

The data deluge

AND HOW TO HANDLE IT: A 14-PAGE SPECIAL REPORT



信息名称: 教育部关于公布2016年度普通高等学校本科专业备案和审批结果的通知

信息索引: 360A08-07-2017-0006-1 生成日期: 2017-03-17

发文机构: 中华人民共和国教育部

发文字号: 教高[2017]2号 信息类别: 高等教育

内容概述: 教育部公布2016年度普通高等学校本科专业备案和审批结果。

教育部文件

教高[2017]2号

教育部关于公布2016年度普通高等学校本科专业备案和审批结果的通知

各省、自治区、直辖市教育厅(教委),新疆生产建设兵团教育局,有关部门(单位)教育司(局),部属各高等学校:

按照《普通高等学校本科专业设置管理规定》(教高〔2012〕9号)的要求,我部组织开展了2016年度普通高等学校本科专业设置工作,经申报、公示、审核等程序,对各地各高校向我部正式申请备案的专业予以备案;在以上工作基础上,根据教育部学科发展与专业设置专业委员会评议结果并征求有关行业部门意见,确定了审批同意设置的国家控制布点专业及尚未列入目录的新专业名单。现将2016年度普通高等学校本科专业备案和审批结果予以公布。

请加强对新设专业的检查和评估,合理控制招生规模,切实保证人才培养质量。

附件:2016年度普通高等学校本科专业备案和审批结果

教育部

2017年3月13日



谢谢

