



Quality

Peter Leeson



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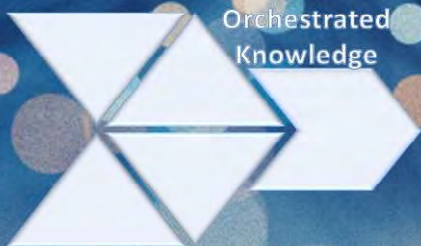
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Orchestrated Knowledge

Why What Where Who How much When

Let's have a Q&A

3.

Peter Leeson

Culture and Effectiveness and Continual Quality Improvement

I am me...

Orchestrated Knowledge

CQI CHARTERED QUALITY PROFESSIONAL

5.

Introduction

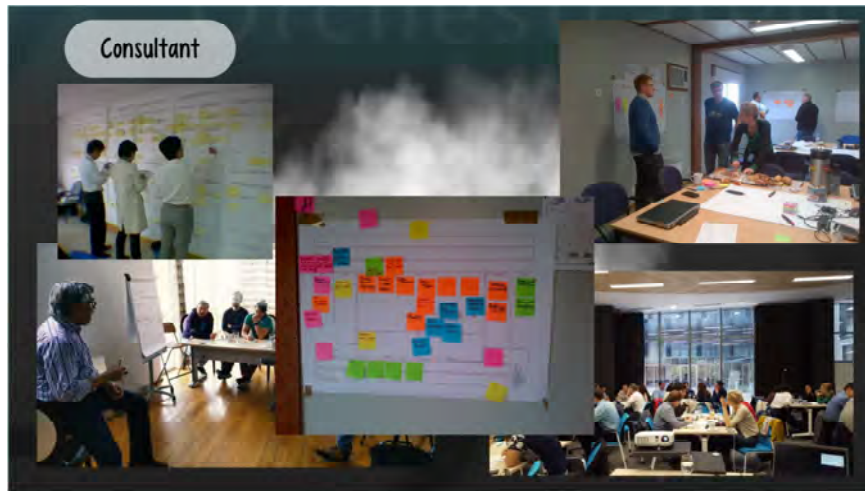
Who am I?

What is Quality?

4.

Public Speaker

6.



7.



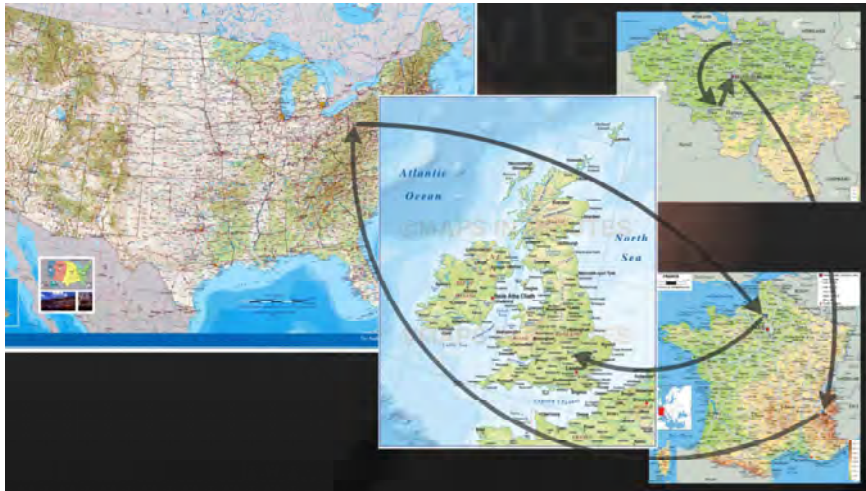
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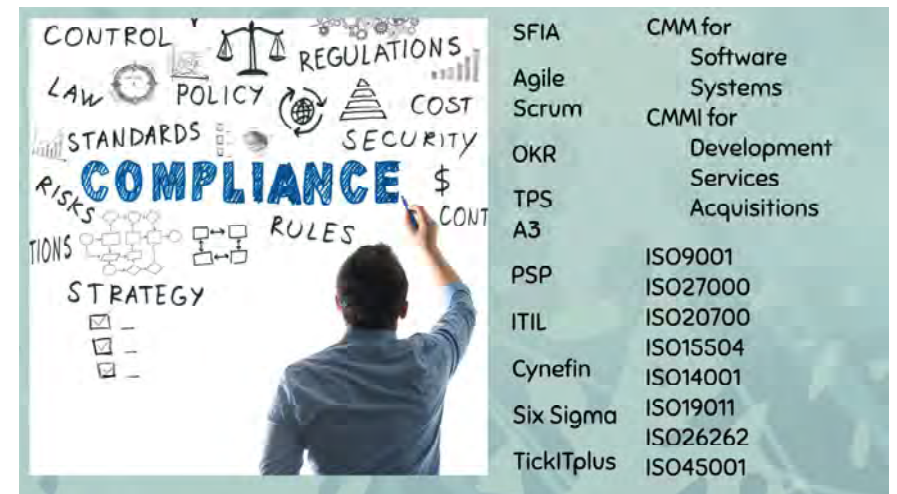
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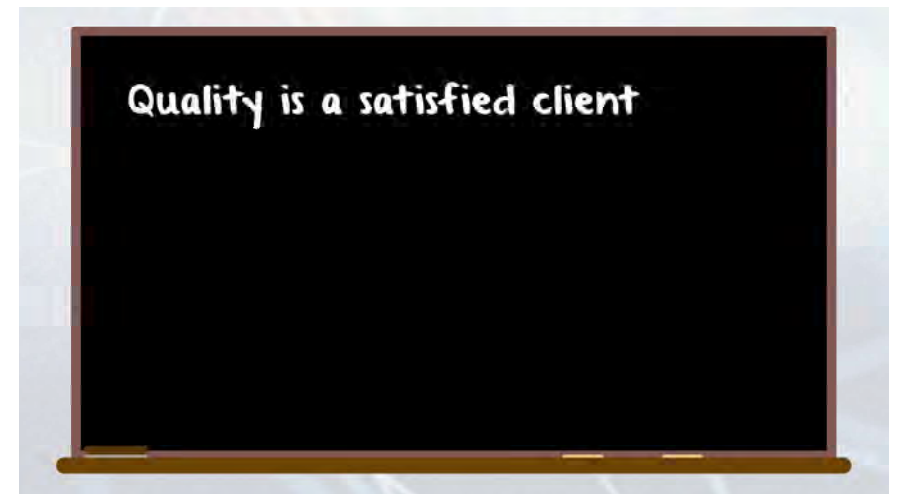
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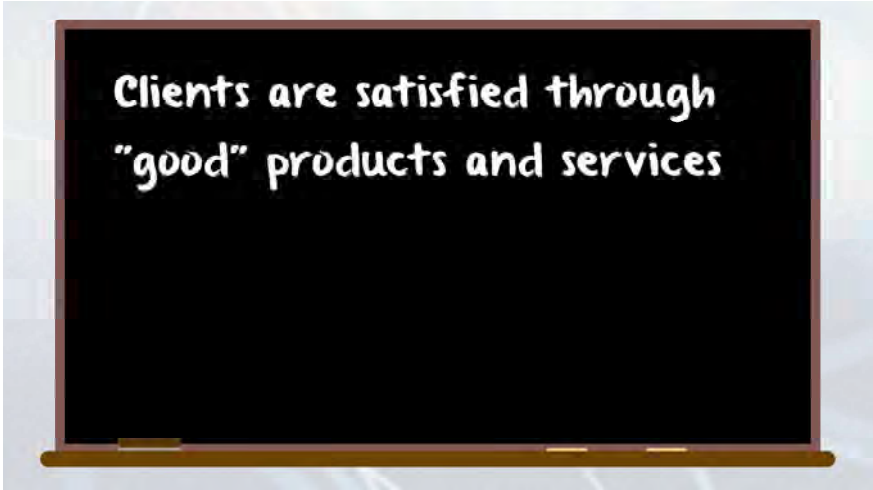
22.



19.



23.



Clients are satisfied through
"good" products and services

24.



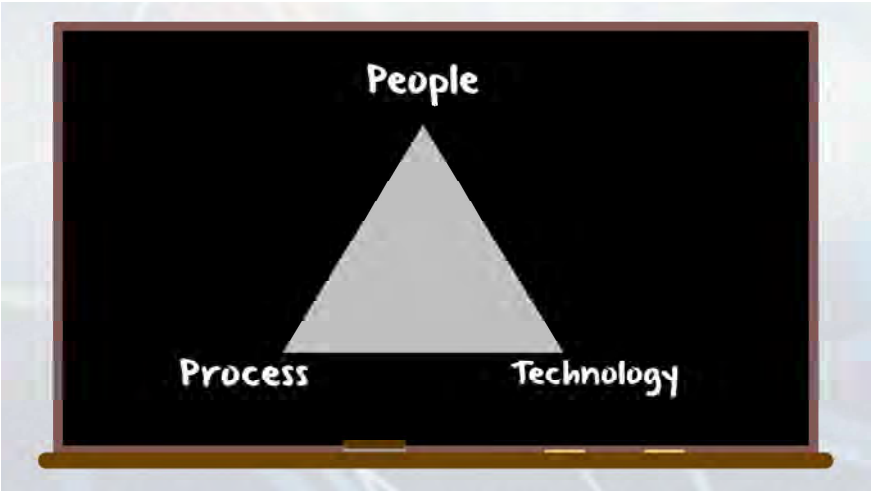
Successful projects depend
on good management
helping good people using
good technology to follow
good value-adding practices

26.



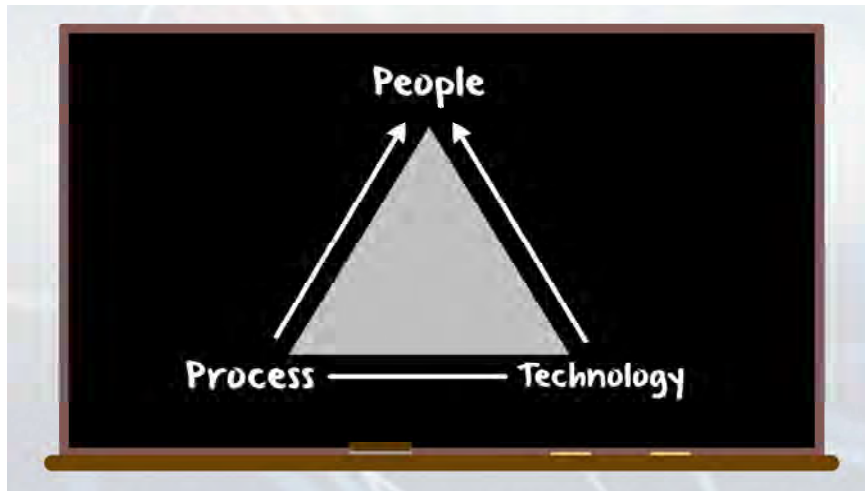
Good products and services are
achieved through successful
projects

25.



People
Process Technology

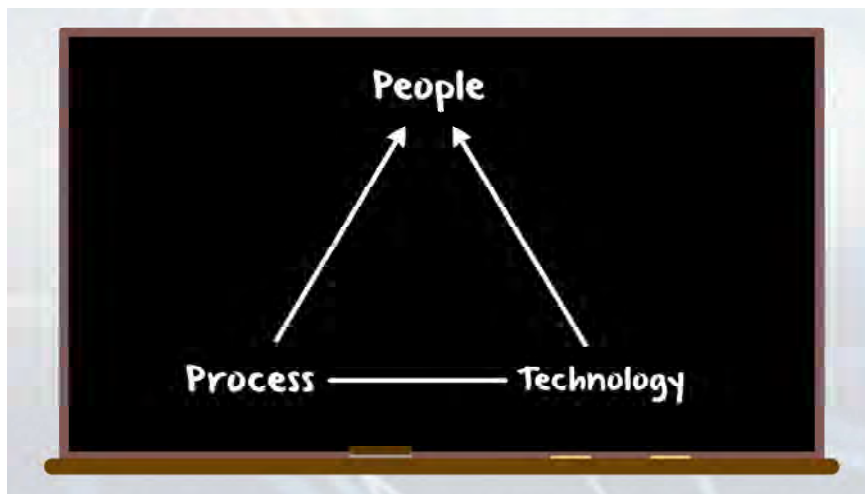
27.



28.

Quality is a
satisfied employee

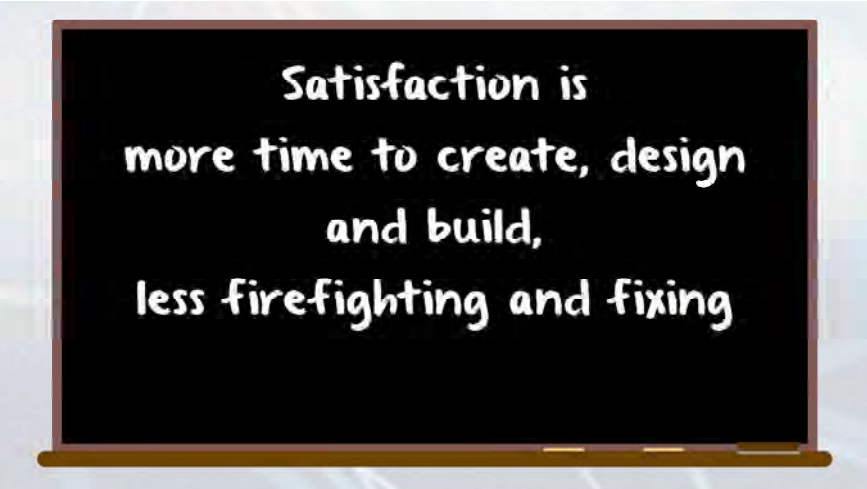
30.



29.

Satisfaction is
a job well done

31.




Satisfaction is
more time to create, design
and build,
less firefighting and fixing

32.



Satisfaction is
reduced stress

33.



Quality is Happiness!

If you can answer all these questions and if all your answers are aligned, you are in the right job and probably doing it well!

What makes you happy?

What makes your clients happy?

What makes your management happy?

What makes your team members happy?

What makes your shareholders happy?

36.

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Let's have a Q&A

37.

The Global Market



The Authograph map available from <http://www.authograph.com/products/products-eg-globe/Plangsen>

39.

Why focus on Quality?

Does it really matter?

Market Finance Productivity

38.

Finance


- Reduce cost of maintenance
- Less effort and time on testing
- Reduced need for support desk
- Increased productivity
- Better client and staff retention

Defect Creation
Requirement Design Development Documentation Testing Maintenance

Defect Discovery
Requirement Design Development Documentation Testing Maintenance

Zone of Chaos

40.



Productivity

Job satisfaction is critical to the willingness to put in the extra effort required

Job satisfaction equates with happiness

Job satisfaction includes a healthy work-life balance

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Quality is not yours

It is not something that is intrinsic to your product or service

It is the relationship that your client has with your product or service

Quality is whatever your client says it is today

Your client's Point of View

$Q=P/X$

Perceived Quality

47.

What is it?

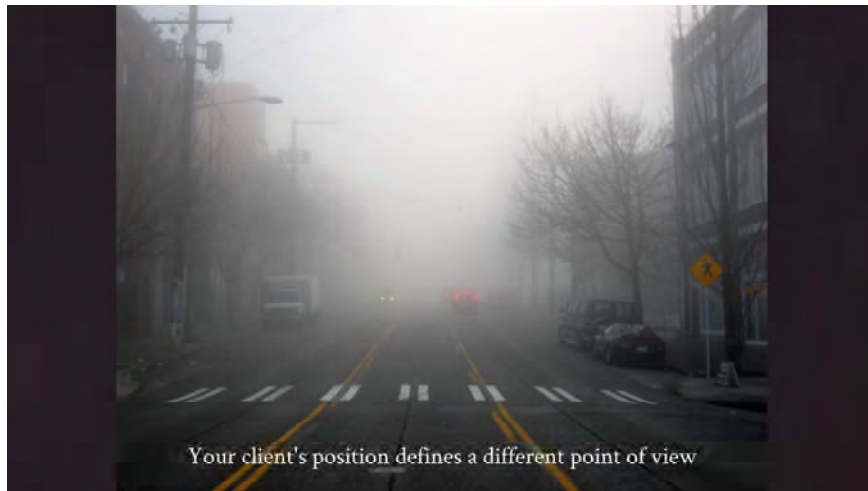
Defining Quality for You

Defining Quality

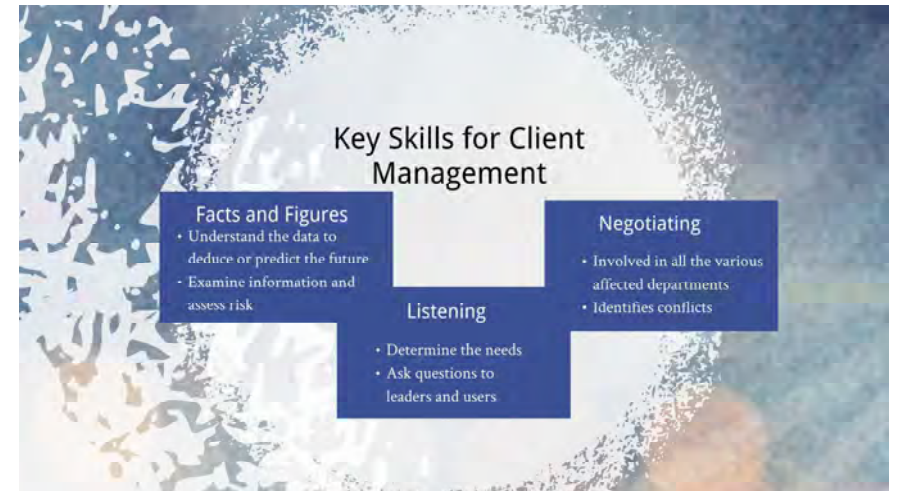
43.

Your position defines your view

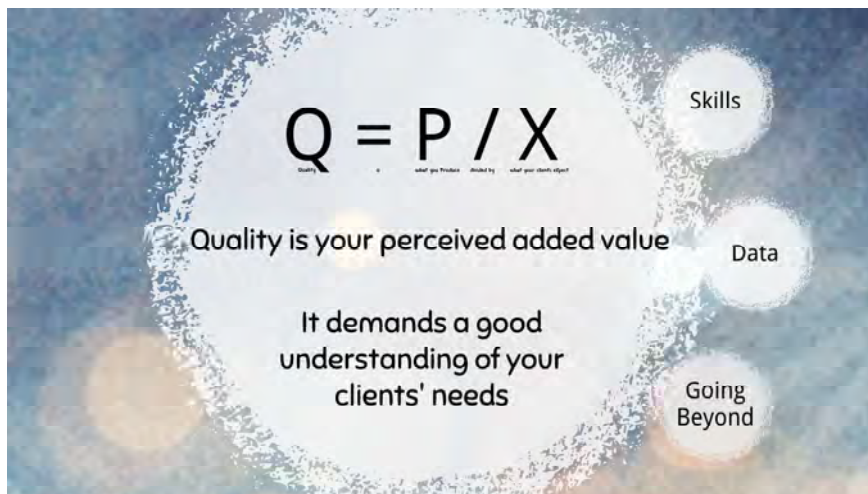
50.



51.



64.



60.



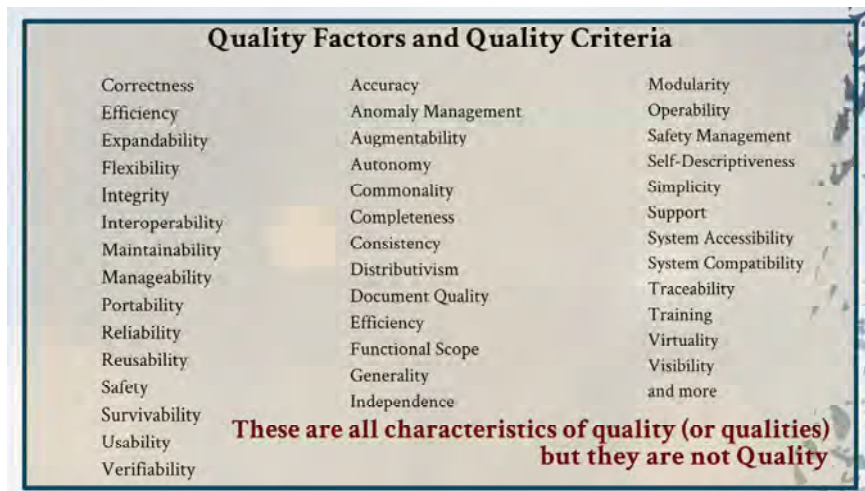
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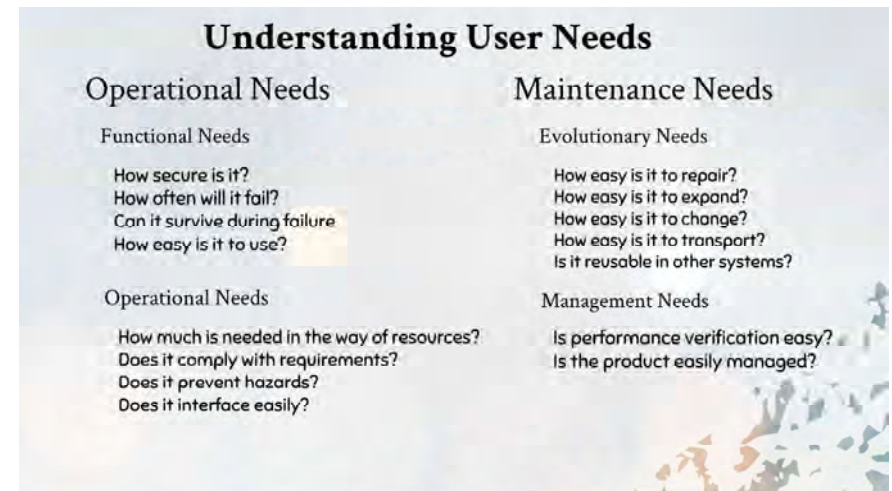
66.



70.



69.



74.

Understanding User Needs

Operational Needs

Functional Needs

How secure is it?
How often will it fail?
Can it survive during failure
How easy is it to use?

Operational Needs

How much is needed in the way of resources?
Does it comply with requirements?
Does it prevent hazards?
Does it interface easily?

Maintenance Needs

Evolutionary Needs

How easy is it to repair?
How easy is it to expand?
How easy is it to change?
How easy is it to transport?
Is it reusable in other systems?

Management Needs

Is performance verification easy?
Is the product easily managed?

Understand the Client's Perception of Quality

75.




88.



86.



90.



Your initial perceived
quality may *attract*
clients, your realized
quality will *retain* your
clients and grow your
market

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More on standards and compliance:
<https://bit.ly/OK-Compliance>

Standards are Necessary

The basic ideas behind standards

Needs

99.

Compliance is not Quality!

Necessary

Forget the Process, Focus on People

The change needs to happen in your team, in your project, in your reality - and not in some consultant's theory!

98.

More on standards and compliance:
<https://bit.ly/OK-Compliance>

Standards serve a Purpose

Reliability Predictability
 Guarantee Consistency
 Warranty To Requirements
 Safety
 Security Structure

until they don't

100.

Do you know the prime motivating factor for each team member?

Forget the Process, Focus on People

People create quality, motivated people create better quality

<https://bit.ly/OK-FP2>

Motivation





115.

Safety Needs
Security of body, employment, resources, morality, the family, health, property

Resources, Wages, Skills



Physiological Needs
Breathing, food, water, sex, sleep, homeostasis, excretion



119.

Motivation
<https://bit.ly/OK-FP2>

Abraham Maslow's seminal work on humanistic psychology describes the hierarchy of needs through which we need to pass before we can achieve our true desire of achieving our full potential.

116.

Belongingness Needs
Friendship, family, sexual intimacy

Continuity, Planning, Methodology, Stability

Safety Needs
Security of body, employment, resources, morality, the family, health, property

Resources, Wages, Skills

Physiological Needs




121.



123.



127.



125.

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Let's have a Q&A

129.

The Fundamentals of Quality

Every structure, every product needs a combination of three key elements of quality

Firmitas
 Utilitas
 Venustas

141.

Now, let's do it differently

Name it!

Make a difference!

Define
 Assist
 Structure
 Manage
 Organize
 Lead

137.

Reliability

Most of the traditional quality characteristics focus on the stability and reliability of the product when under stress

142.



143.



147.



144.



148.

It's OK to want to be the Cheapest



149.

But it's not OK not to know

If nobody knows or agrees on your primary quality objectives, you will fail



151.

It's OK to want to be whatever you want to be



150.

Define the Job to be Done

Scientific and Thought Progress

What do your clients really want?

How can you best respond to that need or desire?

JOBS TO BE DONE
ANTHONY W. ULWICK

152.

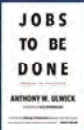
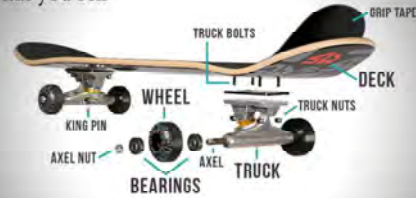
Define the Job to be Done

Scientific and Thought Progress



What they want:
the job to be done

What you sell



154.

Most organizations remain firmly rooted in the 17th Century!



156.

Define the Job to be Done

Scientific and Thought Progress

What do your clients really want?

How can you best respond to that need or desire?

Apply the principle of parsimony: entities should not be multiplied without necessity

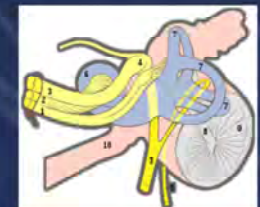


155.

Traditional Western Analytical Deconstructionism

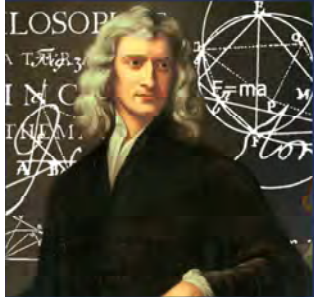
Break things down into their components

If you understand how every component works, you must therefore understand how the system works



157.

Newtonian Physics



The world functions according to set mathematical principles and laws

The laws are immutable

This includes the laws of physics as well as the laws of the Christian understanding of divine creation and design

158.

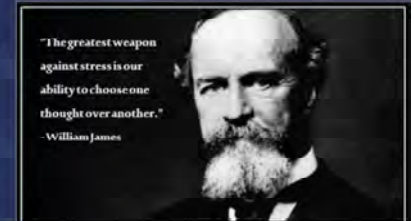
Interoception

1884 – William James and Carl Lange on interoception and interoceptive signalling:

Emotions are the result of the brain reacting to physical changes and a Bayesian analysis of context (you're sad because you are crying)



(the brain's process of integrating signals relayed from the body into specific subregions—like the brainstem, thalamus, insula, somatosensory, etc.)



160.

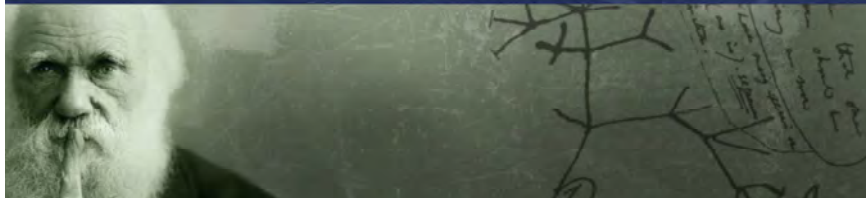
Darwinian Evolution

The world is based on processes that evolve from:

- Random changes
- Eliminating mistakes
- Keeping what gives an advantage

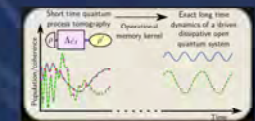
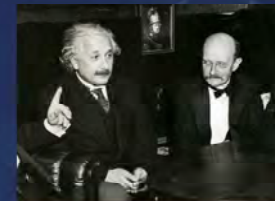
Multiplication of successful combinations

Most developments are wasted, a few succeed



159.

Quantum Mechanics

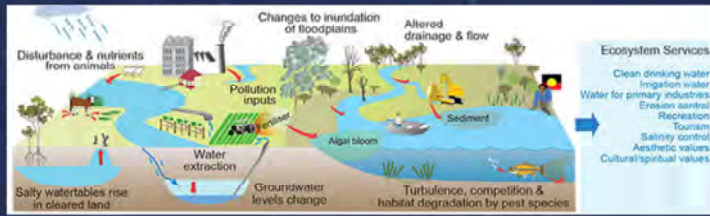


Tiny changes have immense effects – most of them unforeseeable at the start

Something can be in two contradictory beliefs at the same time - until observed and measured

Microscopic chaos creates macroscopic probabilistic order

161.

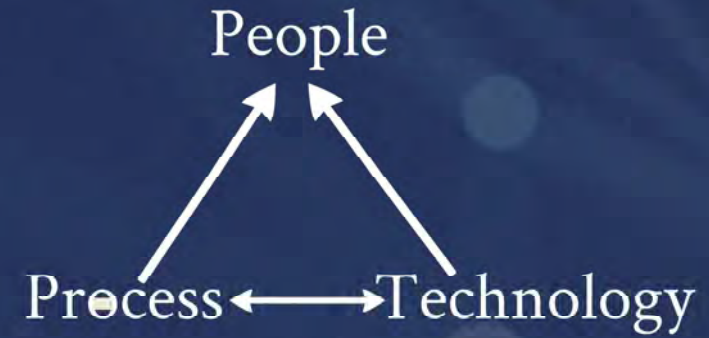


Ecosystems

Bringing everything together because everything impacts everything else
 Society is an ecosystem, an office is an ecosystem, a product is an ecosystem, a service is an ecosystem

Every component depends on the whole

163.

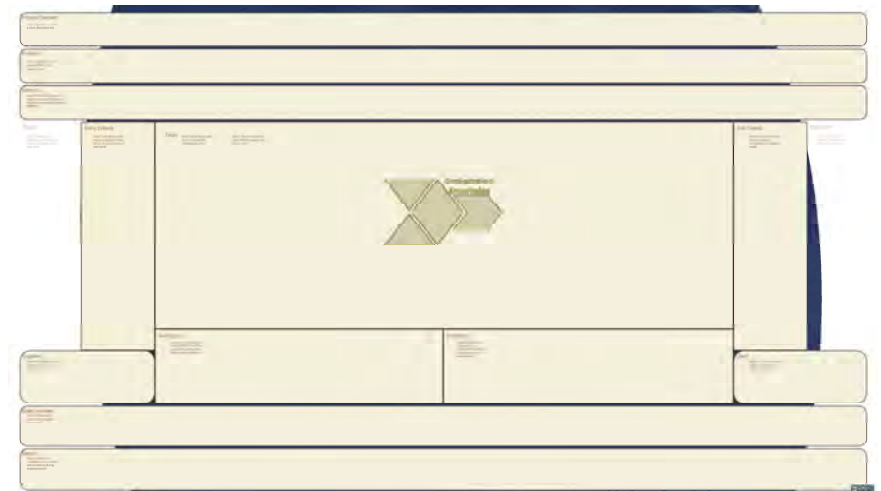


165.

Support the People Doing the Work



164.



166.

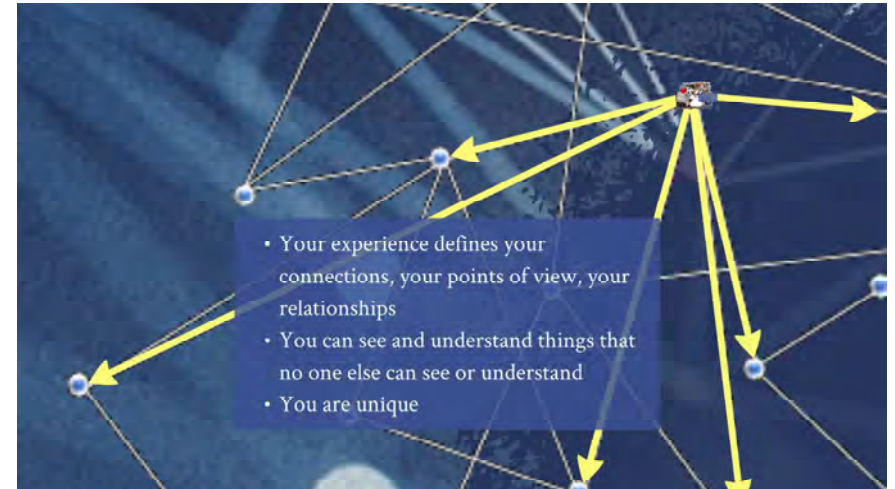


Structure

Culture is not individual

- Think of society not as a collection of individuals, but as a system
- We are defined by our relationships to others
- We are defined by our communication channels
- We are defined by our contacts
- We are defined by what we take away from our past

168.



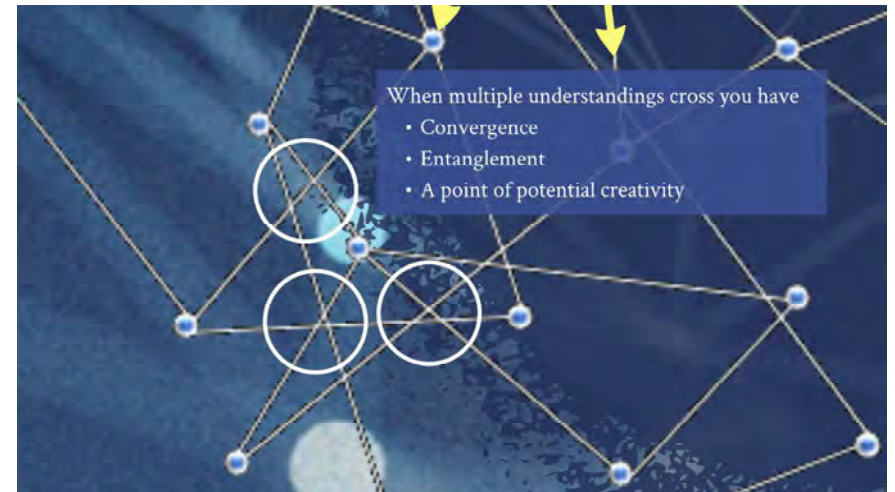
- Your experience defines your connections, your points of view, your relationships
- You can see and understand things that no one else can see or understand
- You are unique

172.



You are the unique combination of every experience you have had in life, your DNA and ancestry, your education, every book you have read, every trip you have taken, every tune you have heard

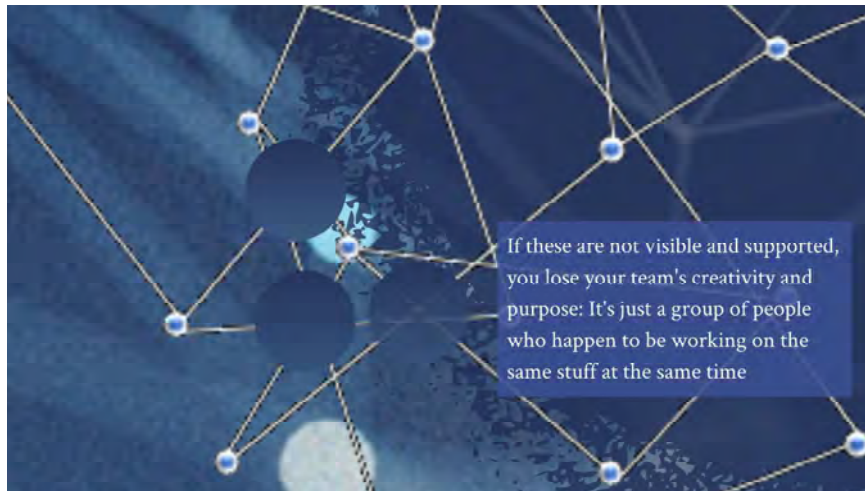
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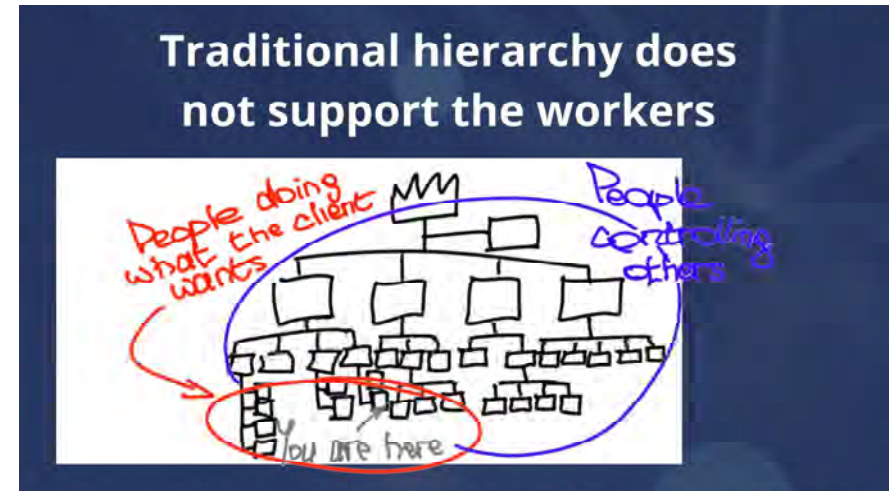
When multiple understandings cross you have

- Convergence
- Entanglement
- A point of potential creativity

174.



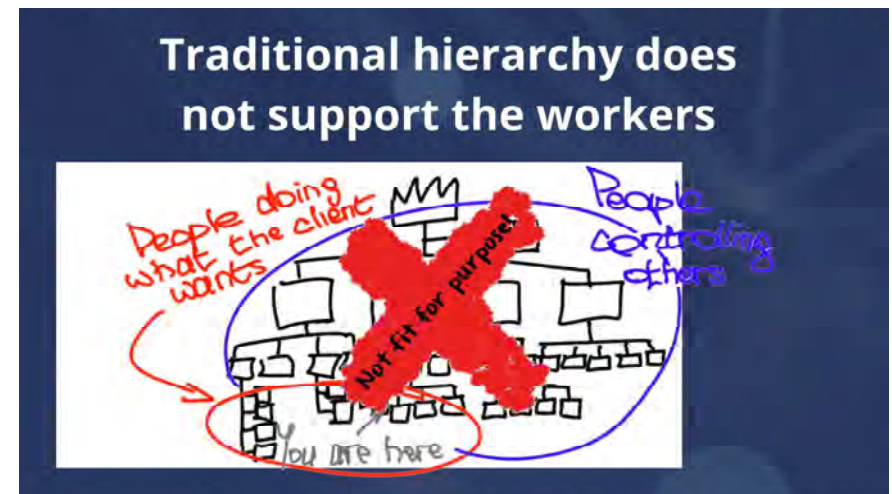
176.



182.



178.



183.

Manage the Design You Want

Design your Business

Design the Culture

Design the Process

Design the Organization

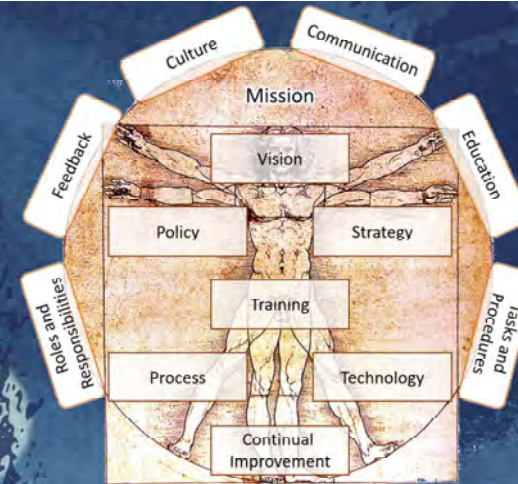


The VQ Pattern
for Management

The Key to
Good
Management

184.

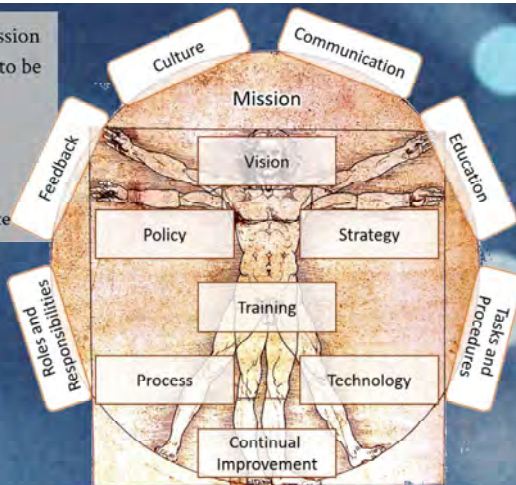
Get your Docs
in a Row!



202.

Because your mission
statement needs to be

- Clear
- Coherent
- Consistent
- Continuous
- Communicate



185.

The Key to Good Management

Your role is not to manage
Your role is not to measure
Your role is not to control
Your role is certainly not to bully
Your role is probably not to dictate
Your role is not even to motivate

**Your role is to satisfy the innate desire people
have to take pride in the value of their work**

204.

Lead

Inspire
Motivate
Educate
Guide
Support

Act at all times as if you
were one of your team
members and the customer
is watching!

206.

Lead

Inspire
Motivate
Educate
Guide
Support



207.

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Let's have a Q&A

208.

Understand the need

User experience Design

210.

Enter the Mind...

Understand the Need
Understand the WOW
Understand the Value

209.

Understand the WOW!

Don't just do what your clients want, do something they need

Add to your product an extra feature that they did not expect

Identify early what you are going to do that differentiates you from everyone else

Good enough is never good enough!

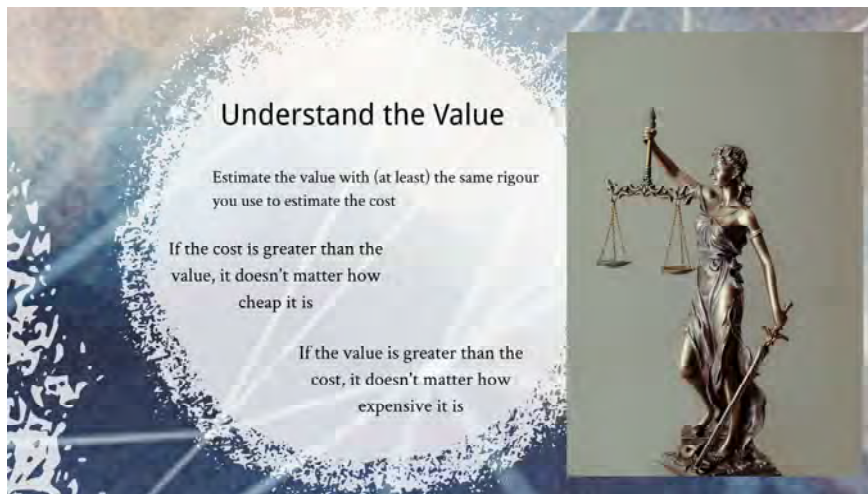
212.



214.



218.



217.



219.

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224.

Cost and Value

There is a great difference between cost and value – most businesses focus too much on the cost and forget the value

What's the Difference?

Estimating the Cost

Estimating the Value

226.

Financial Value is what someone is willing to pay for something

Cost Vs Value

How much should we invest before we have a client?

225.

Cost

Value

lotto

Good luck for your draw

Your numbers

A 04 05 14 22 26 42

1 play x £1.00 for 1 draw = £1.00

LOTTO JACKPOT THIS SATURDAY!

EST. £4.6 MILLION JACKPOT

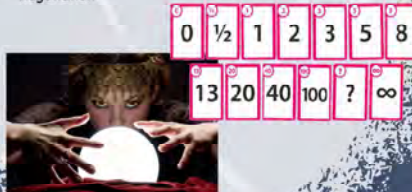
Fill the box to void this ticket

228.

Estimating the Cost

The cost is estimated by various techniques based on an educated guess

The result is dependent on experience and negotiation



231.

Why Not?

The potential value (Quality to be developed) can be estimated using the same basic techniques as estimating the cost and effort required



234.

Estimating the Value

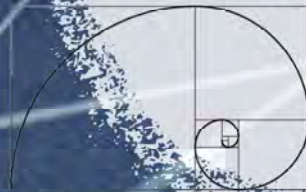
The Quality is the Value you add to your products and services

Quality needs to be determined and guided by the Cost of doing the work and the Price you can ask

Developing quality increases the cost

Quality increases the value

Value increases the price



232.

Business Value

Assign value points to:

- Portfolio
- Features
- Capabilities
- Business



235.

Different Businesses, different needs

Define the Quality needed by your clients using a business status matrix

- Start-up business
- Scalable business
- Mature business
- Declining business




236.

Key Performance Indicators

What if you decide to measure quality instead of revenue?


What if you decide to measure value instead of cost?

What if you decide to measure performance instead of productivity?



238.

Use Cause and Effect Diagrams to understand the cost and Impact of Quality



237.

Cost of Quality



239.

Interruptions

Doing full-time work according to a schedule is the most productive way of doing an intellectual or creative job (like software development)


Each interruption, while giving the feeling of good team work, reduces the actual effectiveness of the team



NPS


The Net Promoter Score measures what your clients really think of you

Every communication should include a request to respond so that you can measure client satisfaction in real time



Defects and correction cps

Understand where defects are being introduced into the product and what is the cost of correction



Employee Engagement

Monitor employee engagement in real time and continuously

Get rid of annual reviews

Please place your expression in the triangle



