# Jur Clouds Vendor Hype or Path to the Future?

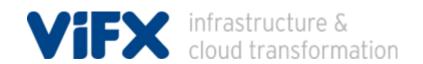


#### Where we are going...

- Characteristics of the operational methodology
- Underlying economics
- 2 Non-economic effects

"The problem with the world today is that there are too many people talking shite, and not enough people being smacked in the gob"

Billy Connolly 1991



- Enable refocus of IT organisations from a traditional technology platform bias, to one directly supporting business differentiation and business
  - Reduce capital and operational cost of IT platforms and services;
    - Maximise investment dollars;
    - Increase capability, connectivity, capacity and agility.





...the education world is changing and IT teams must be prepared to change to be part of it.

Be the experts in the USE of technology

NOT in the support of technology

### Take Aways

Exorcise the must-do-it-ourselves culture.

Shared services is evolving and growing.

Seek out ways you can contribute to,

and utilise this capability.

Use shared services to let go... Focus on the needs and the services.

## O. S. S. M.

On demand

**S**calable

**S**elf service

Metered



#### Economic drivers -

- Supply side economics of scale
- Demand side aggregation (statistics of scale)
- Multi-tenancy

#### **Economics of scale:**

- Power (electricity)
- Infrastructure labour
- Security, resilience/reliability
- Buyer power

#### Statistics of scale: Utilitisation

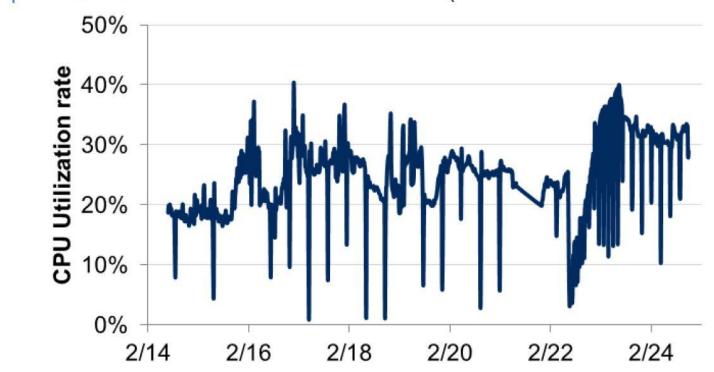


#### Statistics of scale

$$Cv(N) \propto 1/\sqrt{N}$$

#### Randomness

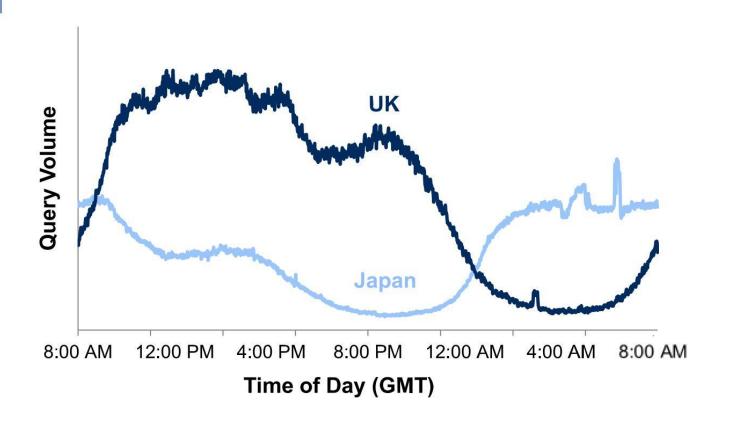
FIG. 6: RANDOM VARIABILITY (EXCHANGE SERVER)





#### Time of Day

FIG. 7: TIME-OF-DAY PATTERNS FOR SEARCH

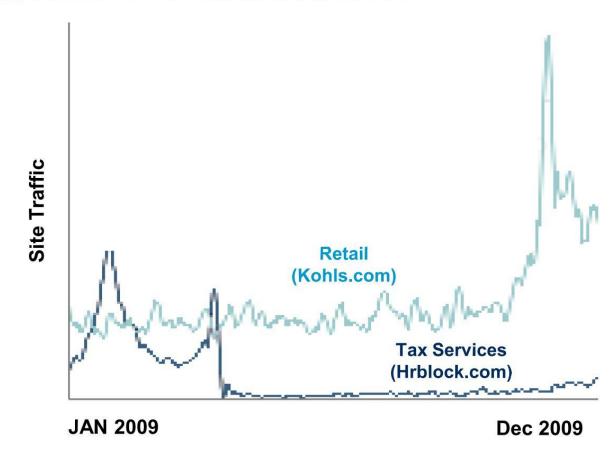


Source: Bing Search volume over 24-hour period.



#### **Industry Specific**

FIG. 8: INDUSTRY-SPECIFIC VARIABILITY

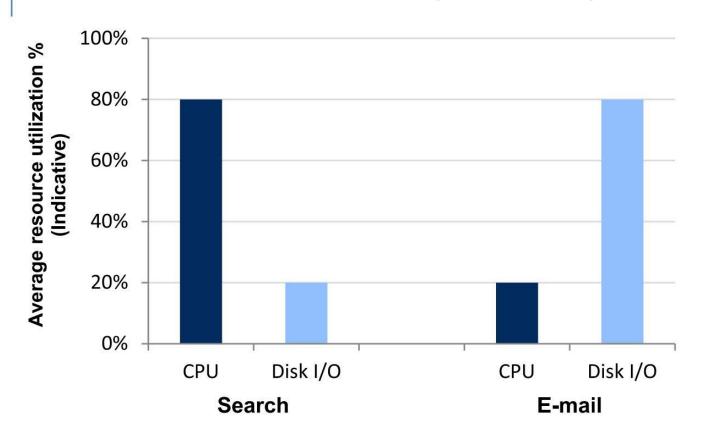


Source: Alexa Internet.



#### Resource specific

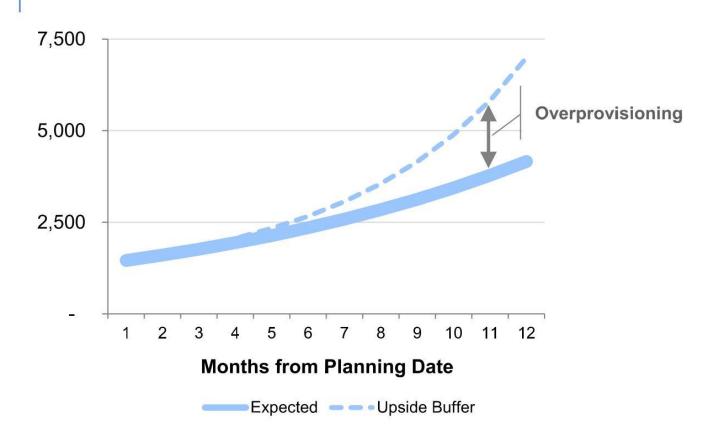
FIG. 9: MULTIRESOURCE VARIABILITY (ILLUSTRATIVE)





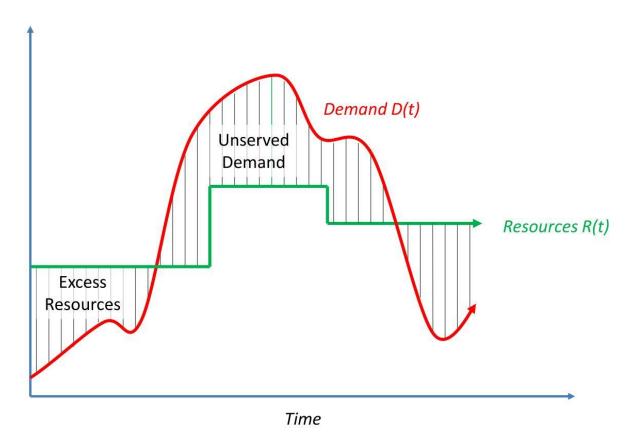
#### Growth

FIG.10: UNCERTAIN GROWTH PATTERNS





#### Growth (another view)



**Imperfect Capacity** 

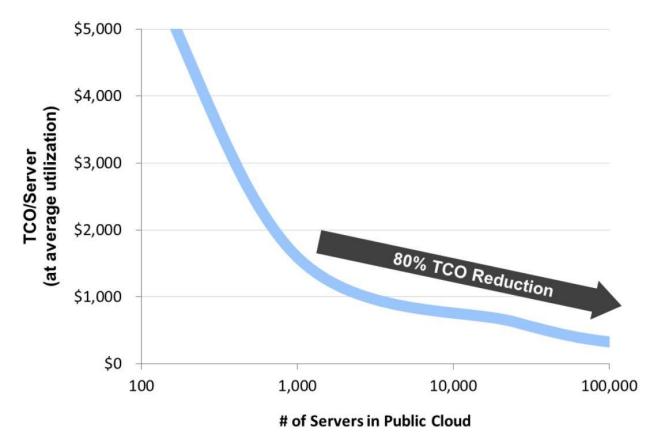


#### Multi-tenancy

 Amortisation of instance costs across many customers

#### Combined impact

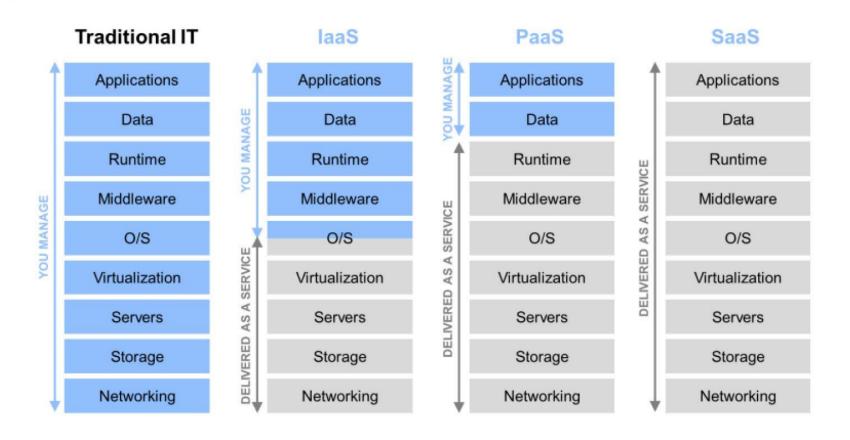
FIG. 15: ECONOMIES OF SCALE IN THE CLOUD





#### Service model variation:

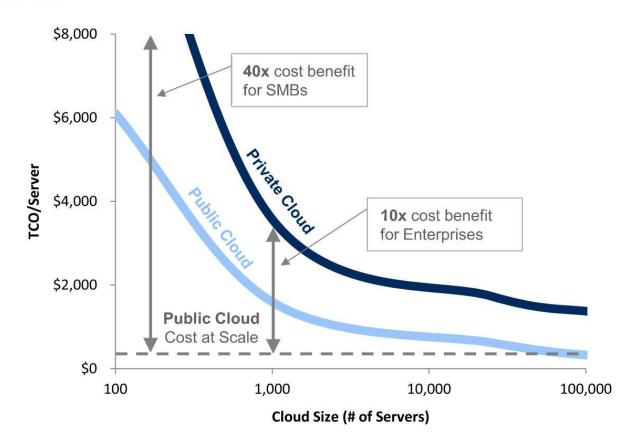
FIG. 17: CAPTURING CLOUD BENEFITS





#### Deployment model variation:

FIG. 22: COST BENEFIT OF PUBLIC CLOUD





#### **Innovation**

#### Innovation and the Cost of Failure - Illustrative

