

Part 2

Who uses I.T

Why

Valid I.T Concerns

Who

Who uses IT

The question for the "Developed" world is "who does not" use IT. As we have previously seen IT is embedded into the machinery that runs the factories and fabricates the items we use on a daily basis. You might not actively use a keyboard and enter data but you most likely use a cell phone, microwave, television... We are "exposed" to IT even if we are not active software programmers or technicians.

Who

With IT being widespread people are now "expected" to have **basic** computer skills.

- Word Processing
- Email
- Spreadsheet, Database
- Internet

Who

Employees (users) are expected to be able to navigate and use business LAN's. Most businesses have nested structures of topical folders designed to hold specific kinds of information. The folder structure enables more efficient work practices.

Who

Discuss the potential disadvantages of not being "Computer Literate" in todays society.

Name/describe 3 disadvantages;

Why

Why

When asking "Why" about the topic of IT. We must consider the "Nature" of human beings. Who/what we are as a species

- We are inquisitive
- We like to experiment
- We are inventive & intuitive

Why

- We are inquisitive, we push boundaries
 - We explore unfamiliar things to learn about them, exploration often leads to further questions
- We like to experiment, we are creative
 - Questions often lead to creation of prototypes
- We are inventive & intuitive, we see possibilities in x?
 - We turn thoughts into tangible things, (usually for \$profit)

Why

Advantages/Benefits;

Make our lives easier, more comfortable, enjoyable, faster.

Shopping is faster (when paying for multiple items). Online shopping

Store "loyalty" memberships, discounts

Traffic lights automate vehicle flows

Factories create things that we consume

Why

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Valid Concerns

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System Performance:

- Do the systems support the workload and job/traffic throughput
- The probability of maintaining consistent throughput over time
- Does performance degrade as more users logon

System Reliability:

- Do the systems run with minimal downtime or breakdowns
- The probability of failure free operation over a specified time

Valid Concerns

System Stability:

- Do the systems perform in a continuous manner
- The probability of maintaining uninterrupted /continuous running over time

Valid Concerns Virus Worm Trojan Hacking

Virus activity has steadily increased since early 2000's. The sophistication of the code and danger from these viruses has also increased.

The nature of virus activity changes to reflect the main popular criminal activity of the time. Eg file corruption and computer operation (old style), file copying, phishing, scamming, credit card & bank account details harvesting. Now Ransom_ware is a hot topic

Valid Concerns Virus Worm Trojan Hacking

Encryption: Now being used as a weapon on the Internet to encrypt home users and business users files. The software demands payment for releasing your files. (most often payments made did not get the files back!)

Valid Concerns

Deliberate DDOS attacks

Distributed Denial of Service

Physical Infrastructure Attacks

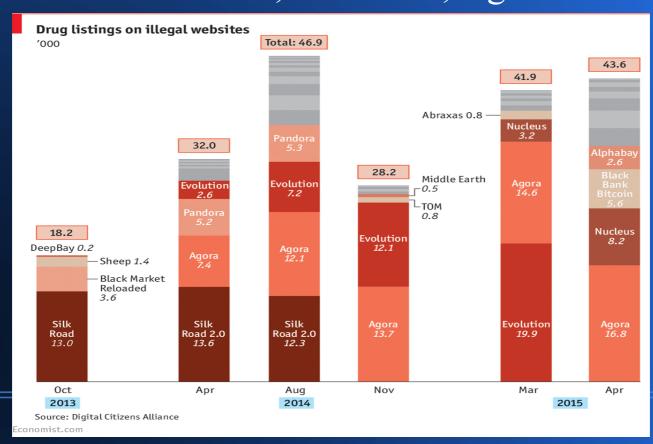
Valid Concerns

Physical Infrastructure Modification:

Embedded Trojan code hardwired into the devices chips. [electronic photo frames copied and sent their contents "off shore". And released a very hard to remove file-copying virus onto the attached computer, and sent the file copies "off-shore"

Valid Concerns

Criminal Activities; Silk Road, Agora...????



Valid Concerns

Privacy; Some toys are now Bluetooth enabled, investigators have found hidden software to capture/stream conversations, stream video.

Apple; SIRI is Always listening... where do you keep your phone, what activities is siri a part of ?.

Valid Concerns

Disadvantages;

A lost credit/bank card could potentially be a problem.

Hacking and viruses harvest financial information.

Identity theft is increasing.

A lost phone could be a problem (what's on your phone)

A person with "No" computer skills is at a disadvantage in the modern workforce.

When technology goes wrong



When technology goes wrong



When technology goes wrong?

