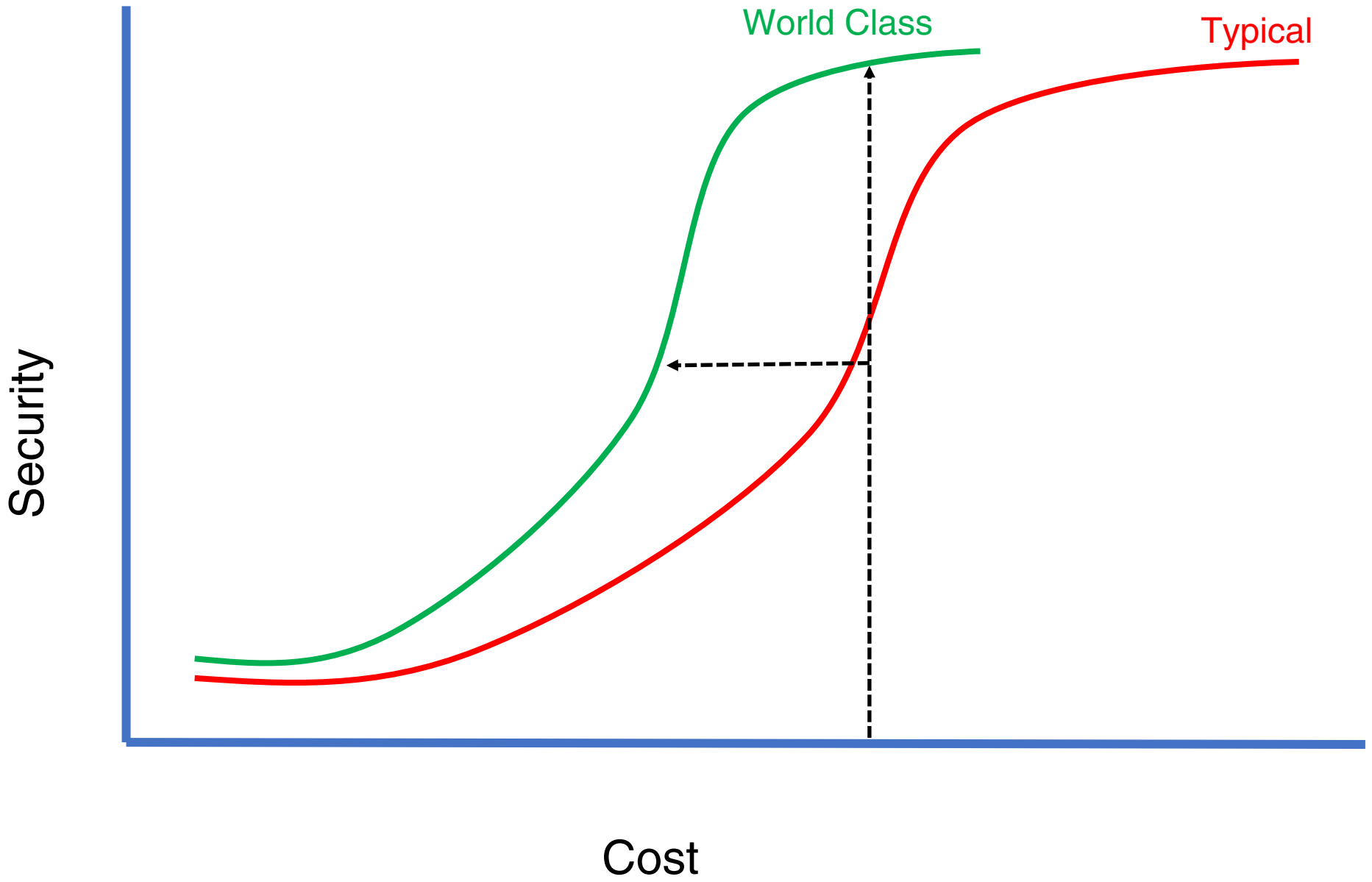
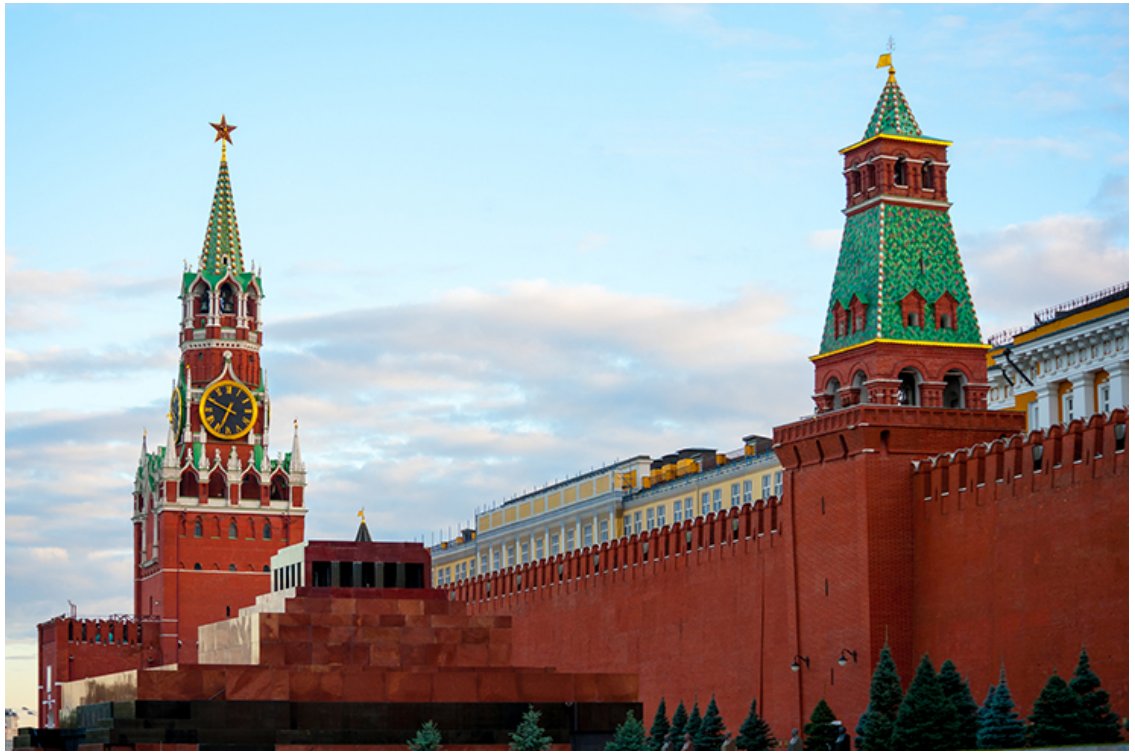
How to achieve world class security

Dr. Eric Haseltine
Chairman of the Board USLTC


World Class
Typical
Security
Cost



$$$$$

It’s not the mountain we conquer, but ourselves

Sir Edmund Hillary, first to climb Mt. Everest

Conquering ourselves

- Confront reality
- Acknowledge your blind spots
- Have courage
- Re-define unsolvable problems into solvable ones

Emphasis

Production

Pre-release

Distribution

Consumption

Confront reality

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Kim Dole
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Manager
Betsy Foster
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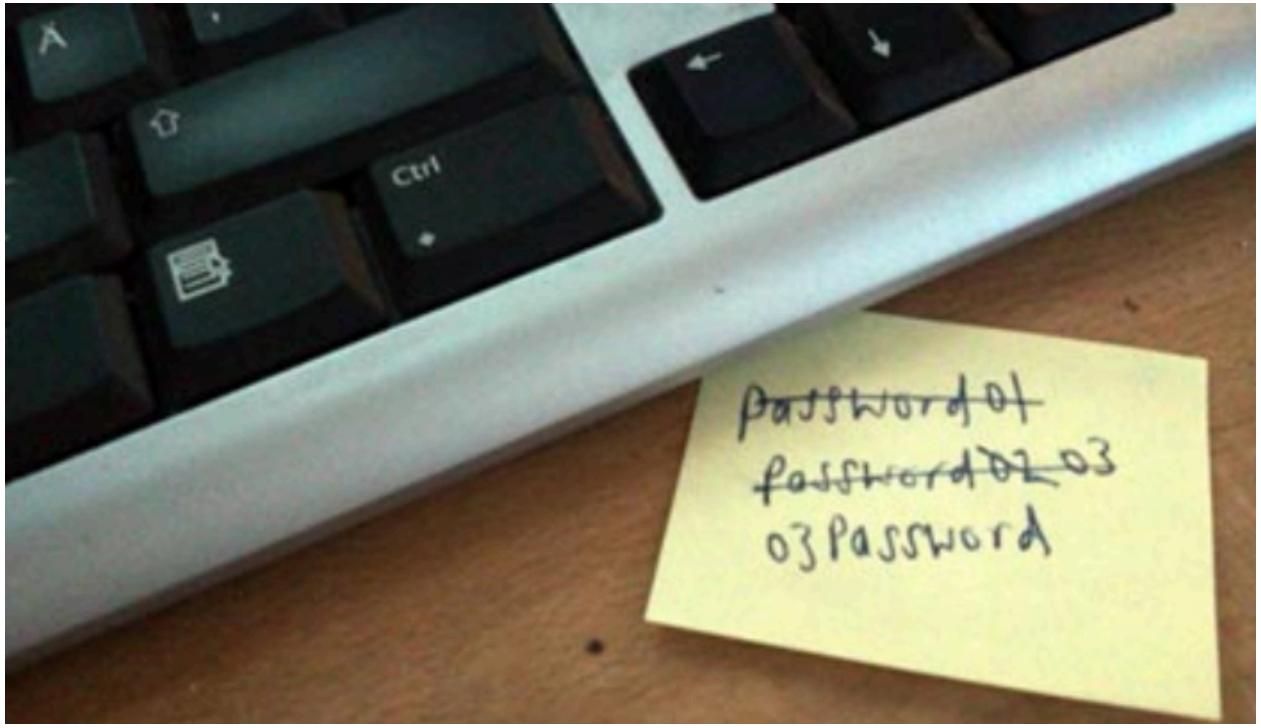
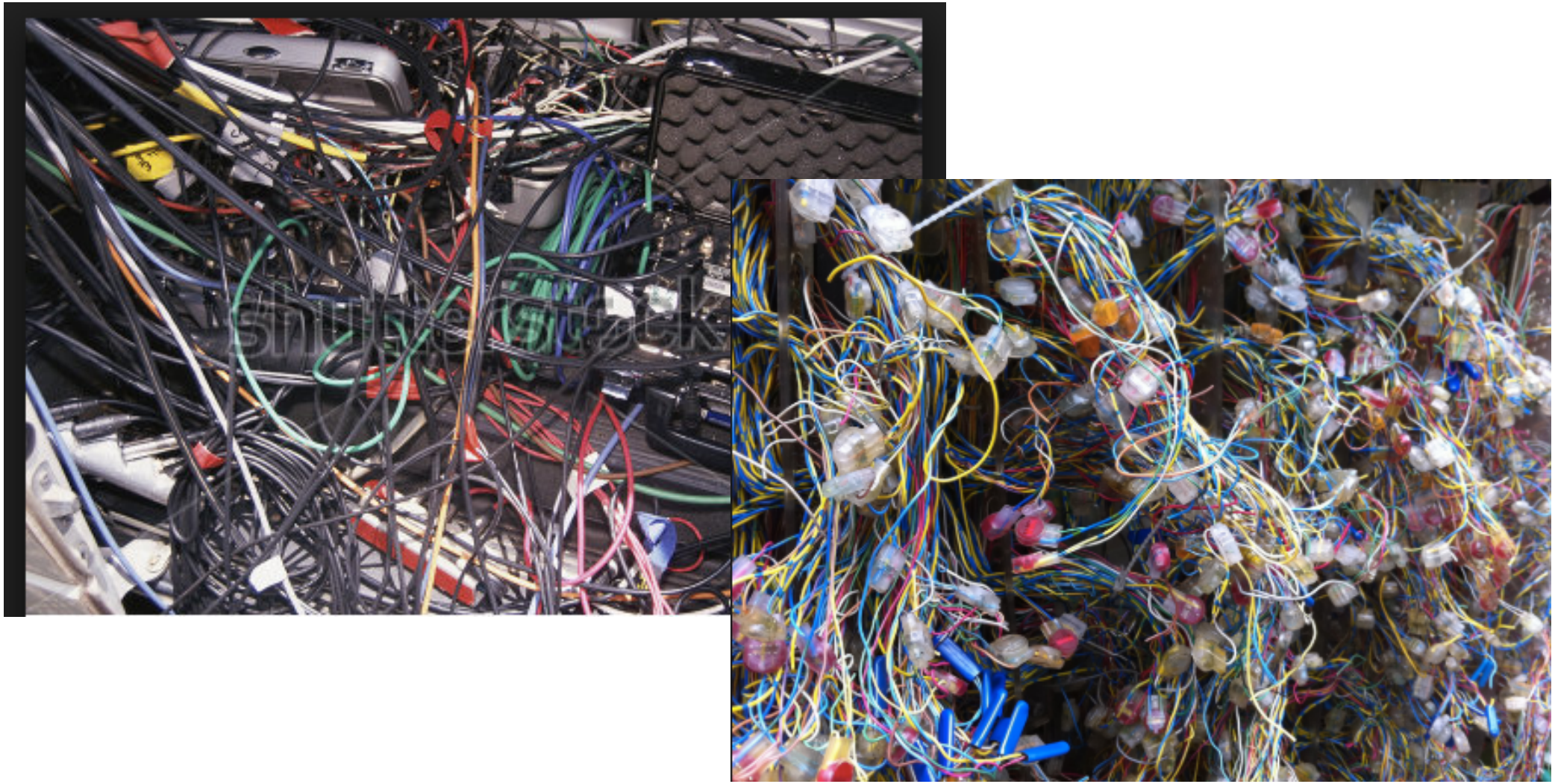
Another result: unreasonable behavior





World class solution

Acknowledge blind spots

- **Confirmation bias:** "We've seen this malware or exploit before and already patched it
- **Semmelweiss effect:** That recent anomaly/threat is just a routine anomaly/threat, even though we've never seen anything like it (and we can handle it)
- **Conservation bias:** We generally have a good handle on insider threats, despite recent data spill
- **Believabiity bias**: Our recent data spill most likely occurred because we were late with a patch of a widely known exploit
- **Law of the instrument**: We will have raised the "security bar" suitably high with state of the art defenses across the board (air gaps, firewalls, signature detectors, behavior detectors, access control, shielded SCIFs)
- **Prejudice:** We stopped future data spills by bringing all of our patches up to date on all systems
- **Functional fixedness**: Our computer network is a digital information system, not analog electronics
- **Normalcy bias**: Quantum attacks are too far in the future to worry about

Example: Physics attacks

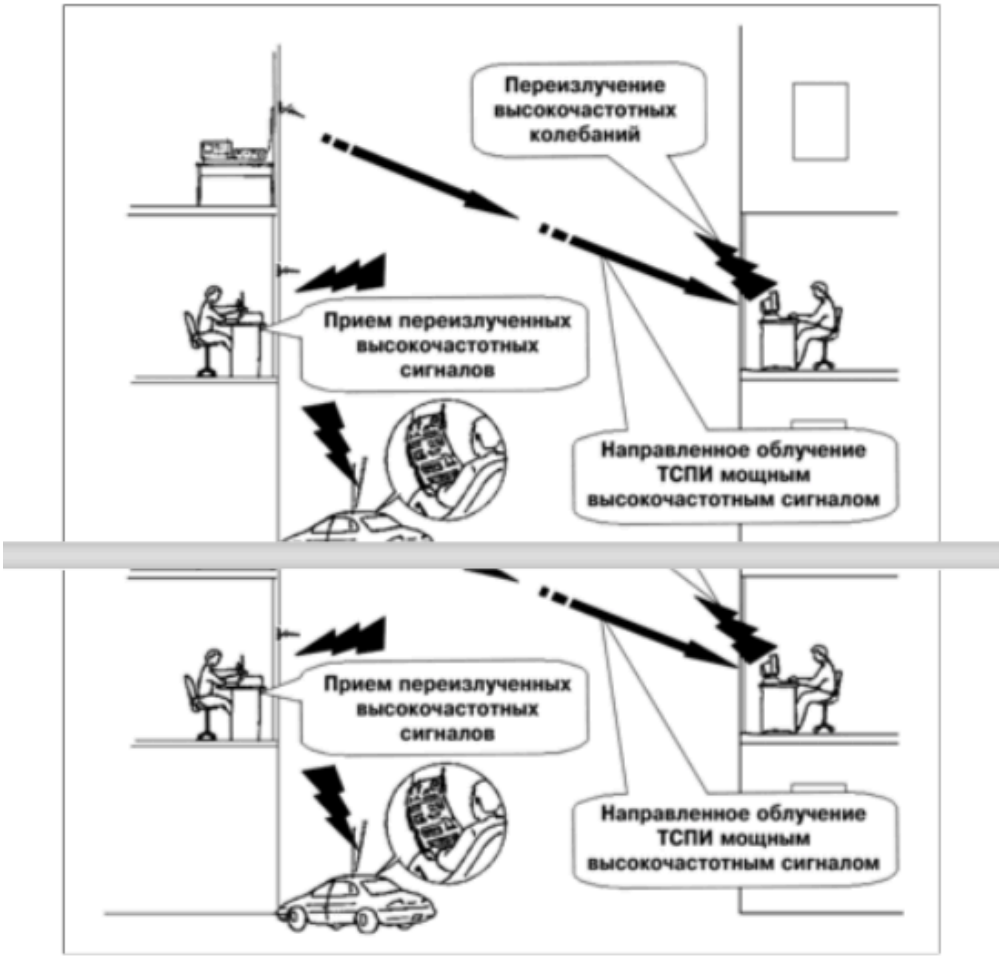


Рис. 3. Перехват информации, обрабатываемой ТСПИ, методом "высокочастотного облучения"

World class solution

Have courage

CLOSED

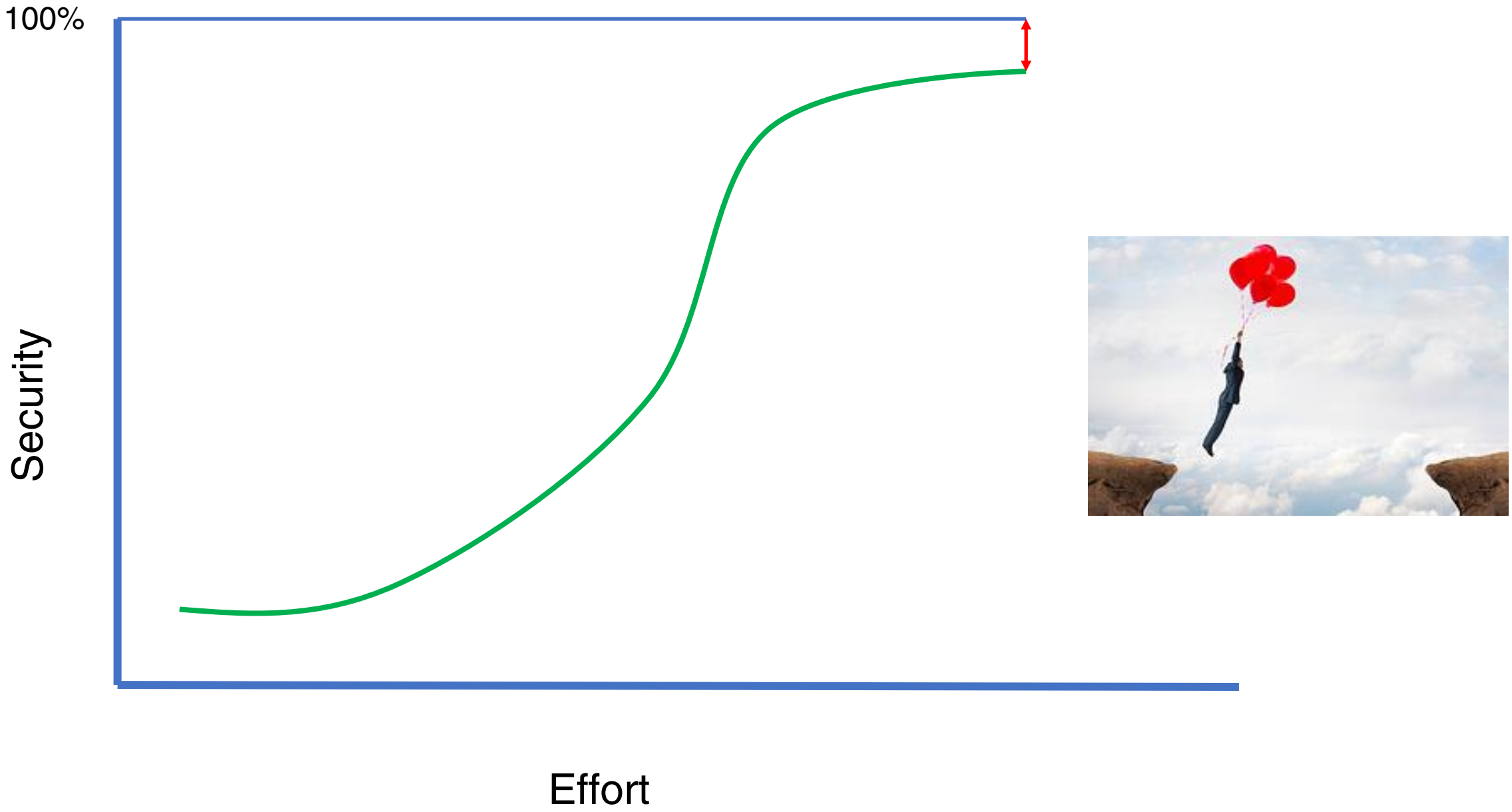
Production

Pre-release

Distribution

Consumption

Re-define unsolvable problems into solvable ones

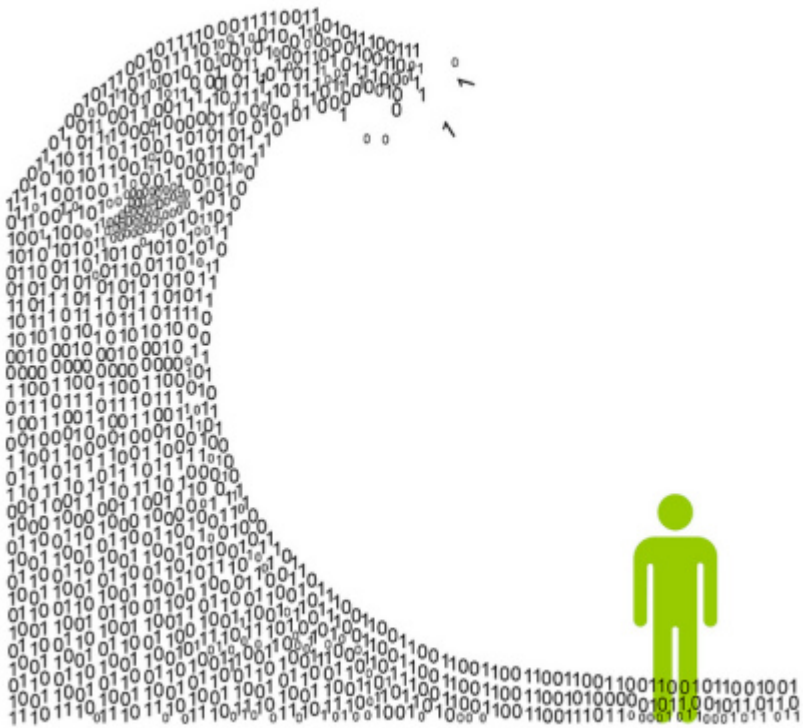

100%
Security
Effort

DISINFORMATION

A parting thought about re-defining problem

Best Working Torrenting Sites

1. **The Pirate Bay** – Best Torrent Site Overall
2. **RARBG** – Best for New Content
3. **1337x** – Best Torrent Search Options
4. **TorLock** – Best for Anime and Ebooks
5. **Torrentz2** – Best for Music
6. **YTS** – Best for Classic Movies
7. **EZTV** – Best for TV Shows
8. **Zooqle** – Best Torrent Games Site
9. **TorrentDownloads** – Best for Obscure Torrents
10. **LimeTorrents** – Best Plan B



DON'T
GET MAD...
HACK
BACK!