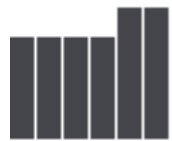




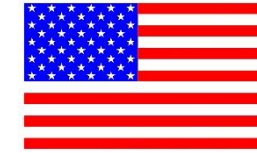
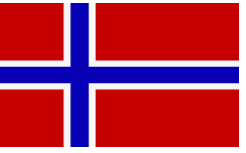
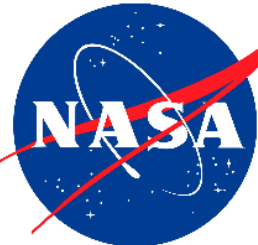
Protect Your Content Like a National Secret

What M&E Can Learn From Military & Intelligence Security?

Selected M&E Customers



Selected Military & Intelligence Customers







EMERGENCY PREPAREDNESS
Property of U.S. Government
EMERGENCY USE ONLY



DISTRICT 9





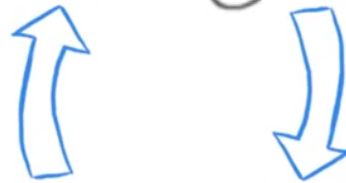
collect



process



analyze



disseminate





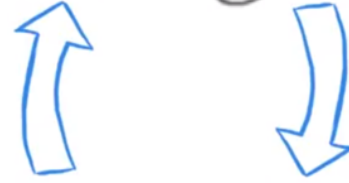
collect



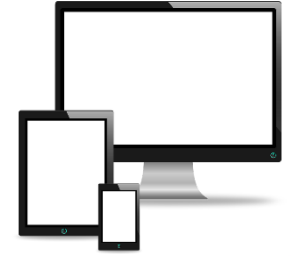
process



analyze



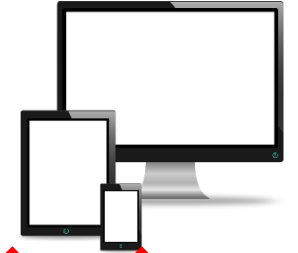
disseminate





animate/render

review/approve/QC



~~collect~~

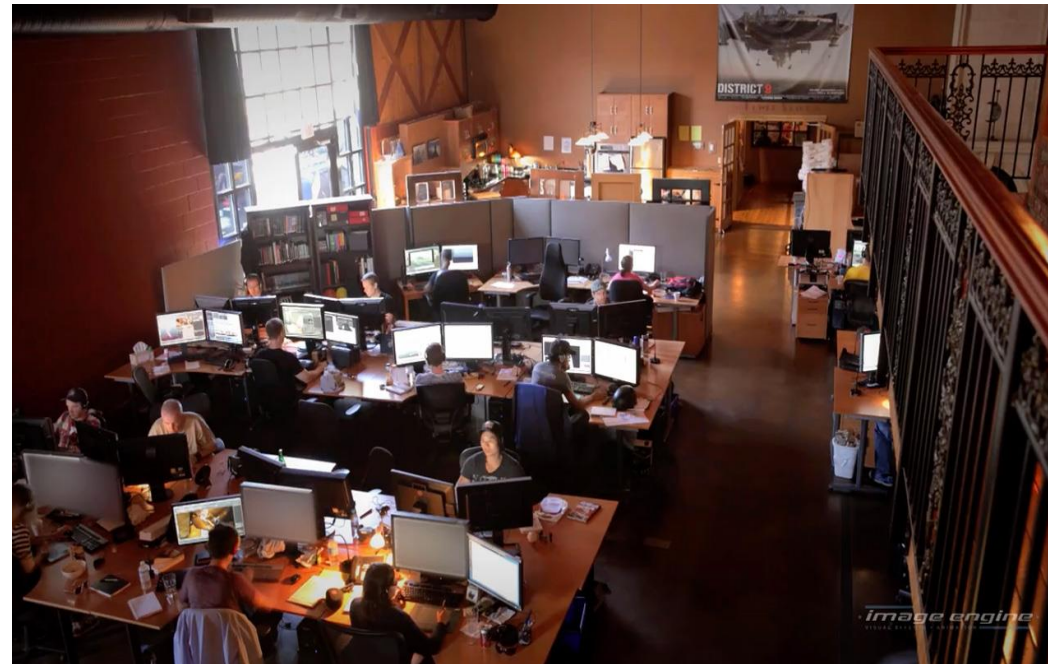
~~process~~

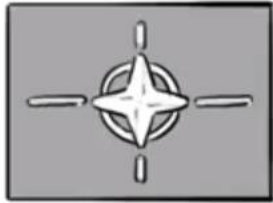
~~analyze~~

~~disseminate~~

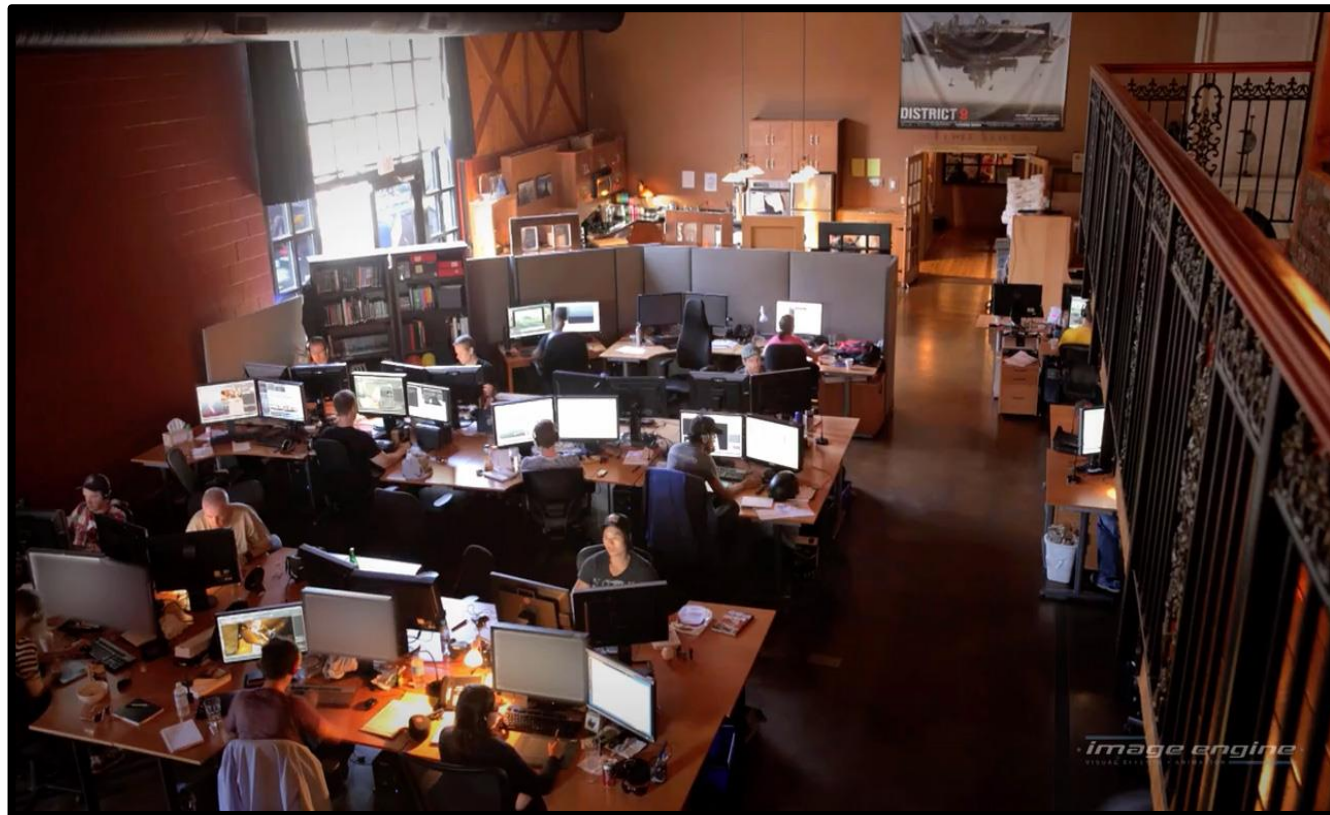
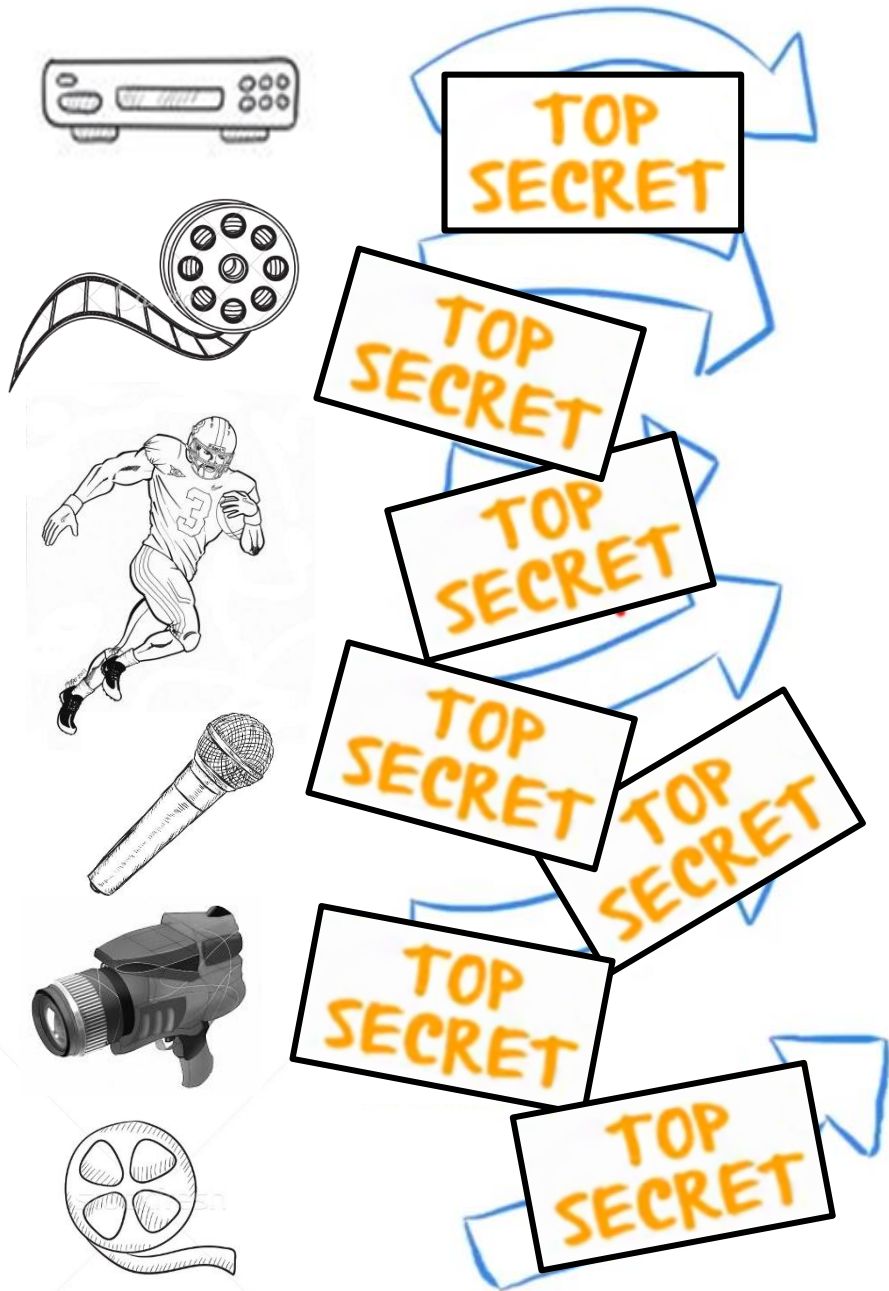
shoot/capture

deliver/distribute









Protect Classified Information

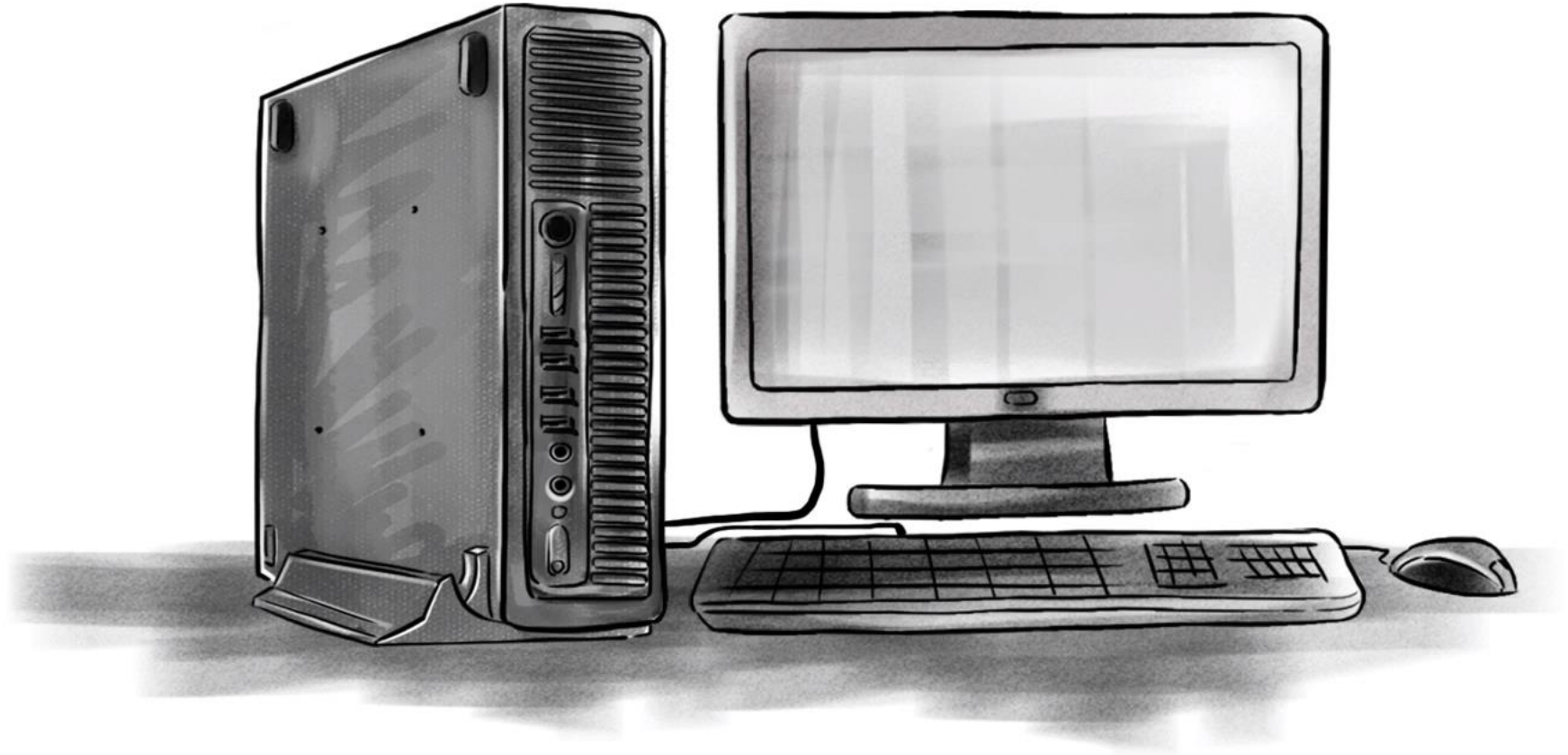


Protect Our Assets





DEDICATED COMPUTER, KEYBOARD, MOUSE AND DISPLAY

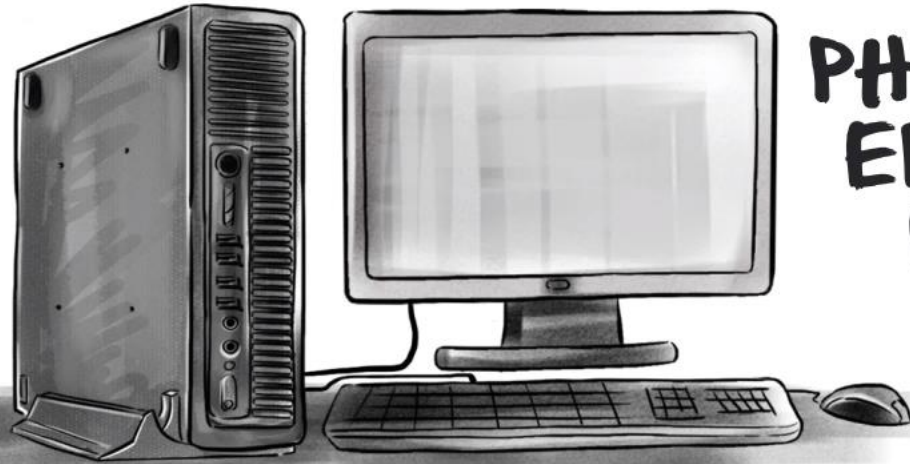


INFORMATION ASSURANCE DIRECTIVES

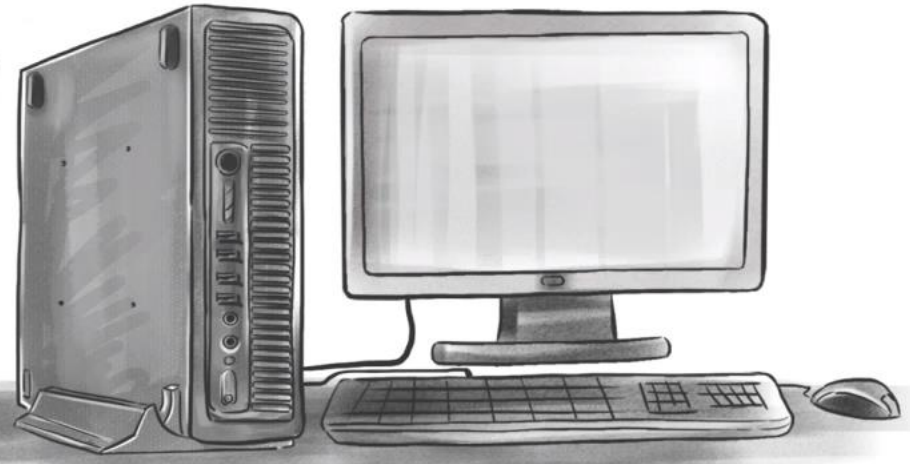
← 1 Meter →

CLASSIFIED NETWORK

UNCLASSIFIED NETWORK



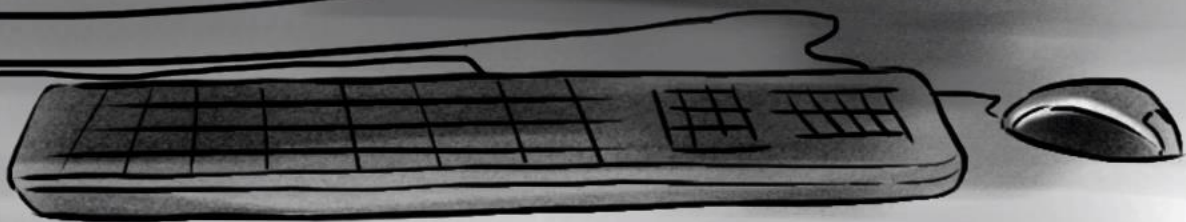
**PHYSICAL AND
ELECTRICAL
ISOLATION**

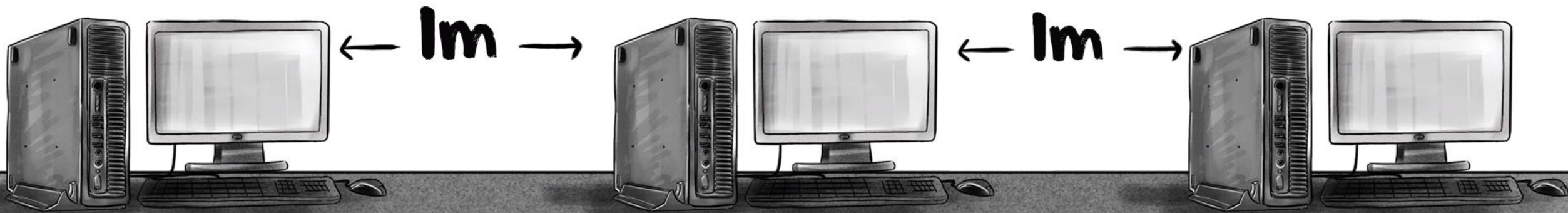






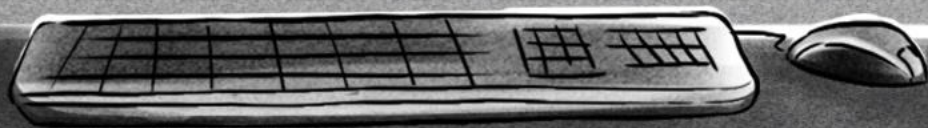
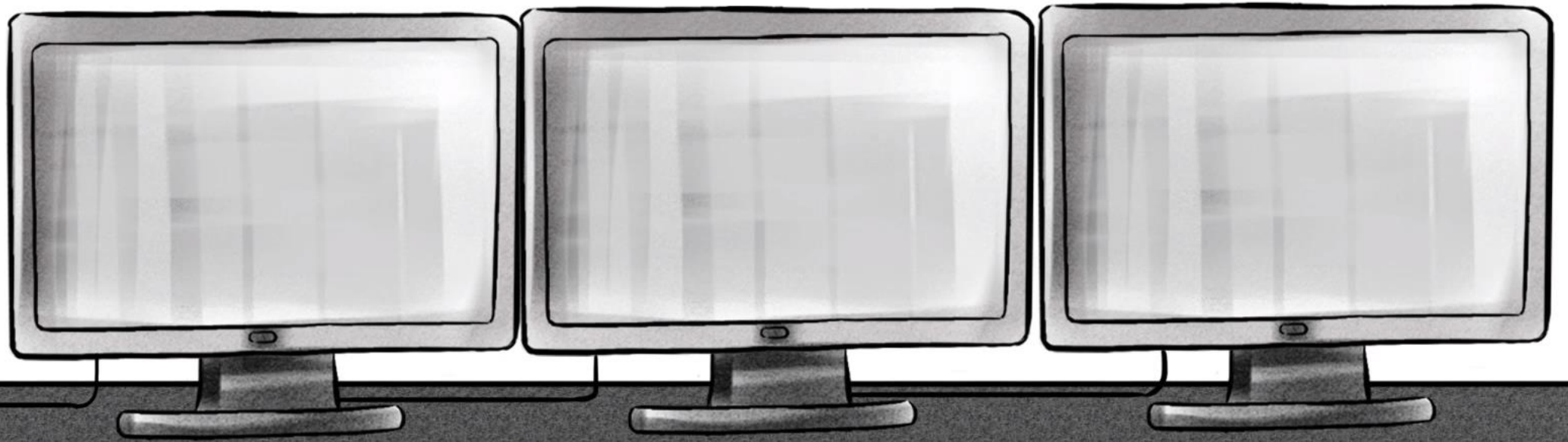
← 10-15 feet →





- ➔ 10+ FEET PER DESK
- ➔ TOO MUCH HARDWARE, HEAT, AND NOISE
- ➔ LACK OF COMMUNICATION BETWEEN DESKS,
BETWEEN DESKS AND VIDEO WALLS, BETWEEN
DESKS AND CONFERENCE ROOMS, ETC.
- ➔ INFORMATION IS NEAR USER

GET THE COMPUTERS OUT OF THE ROOM!





60%

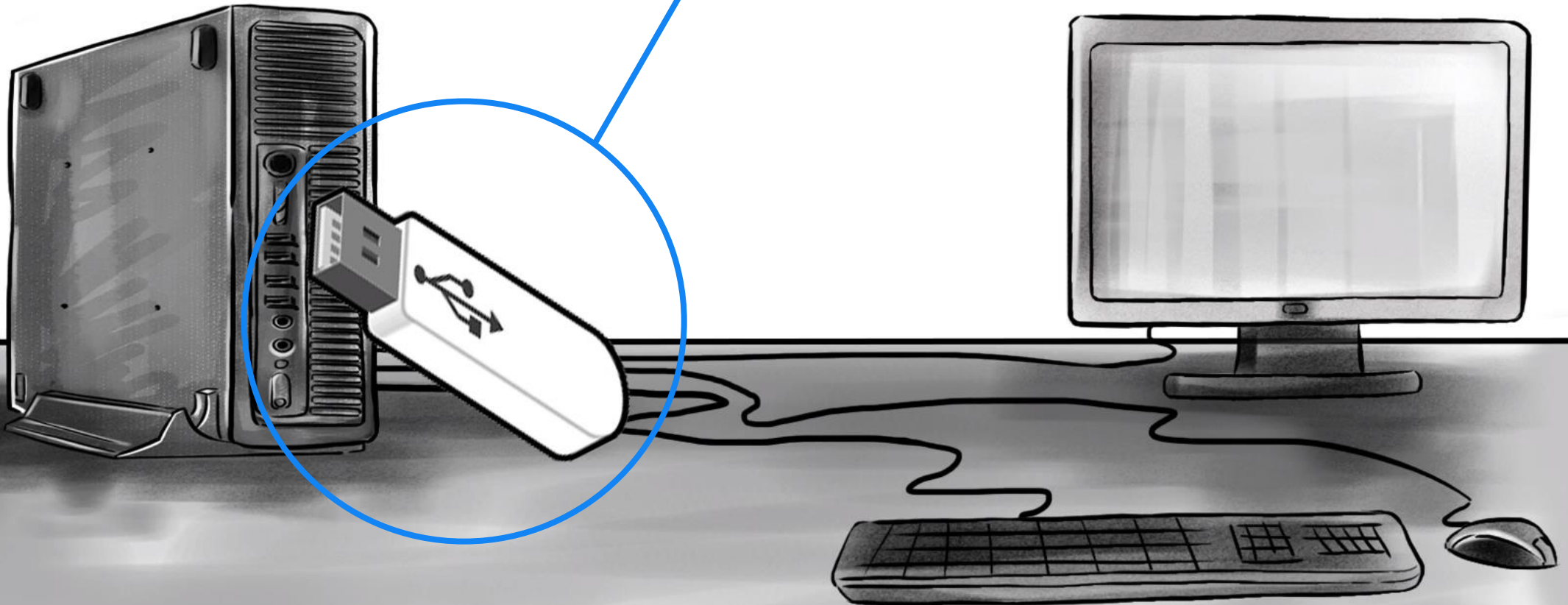


TRANSFERRING

60%

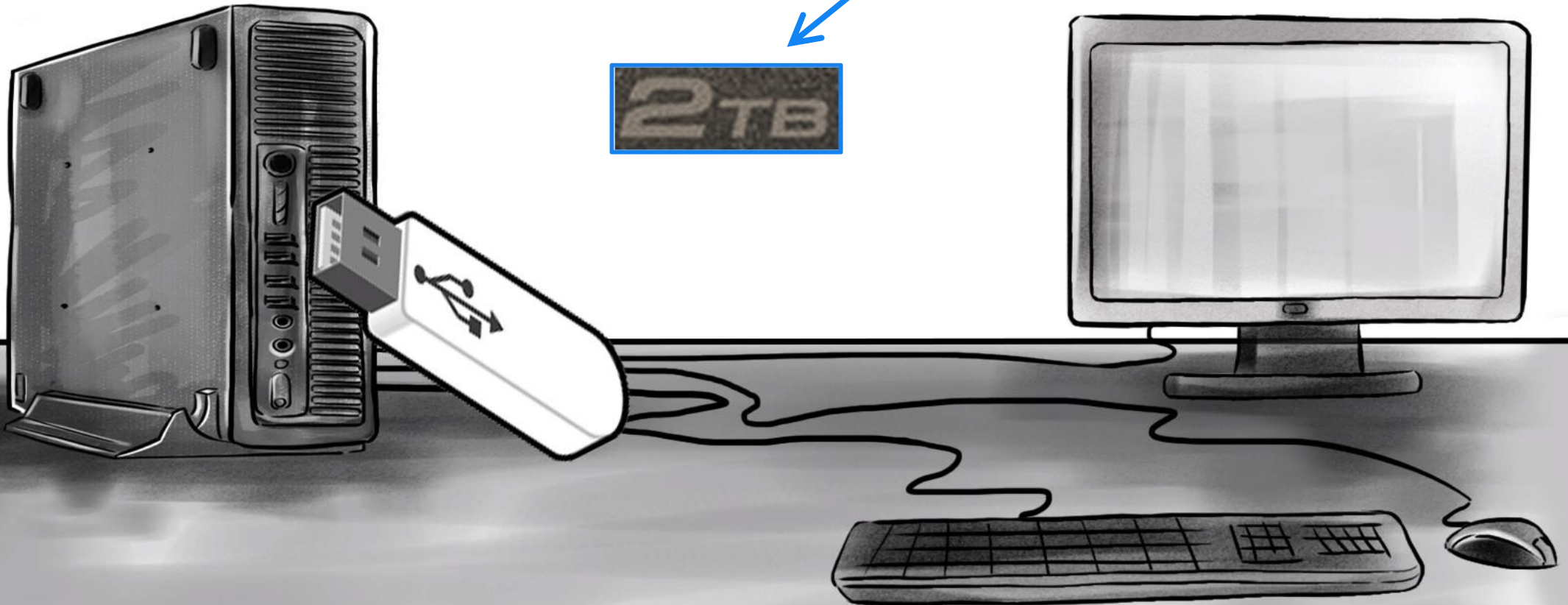


DOWNLOADING



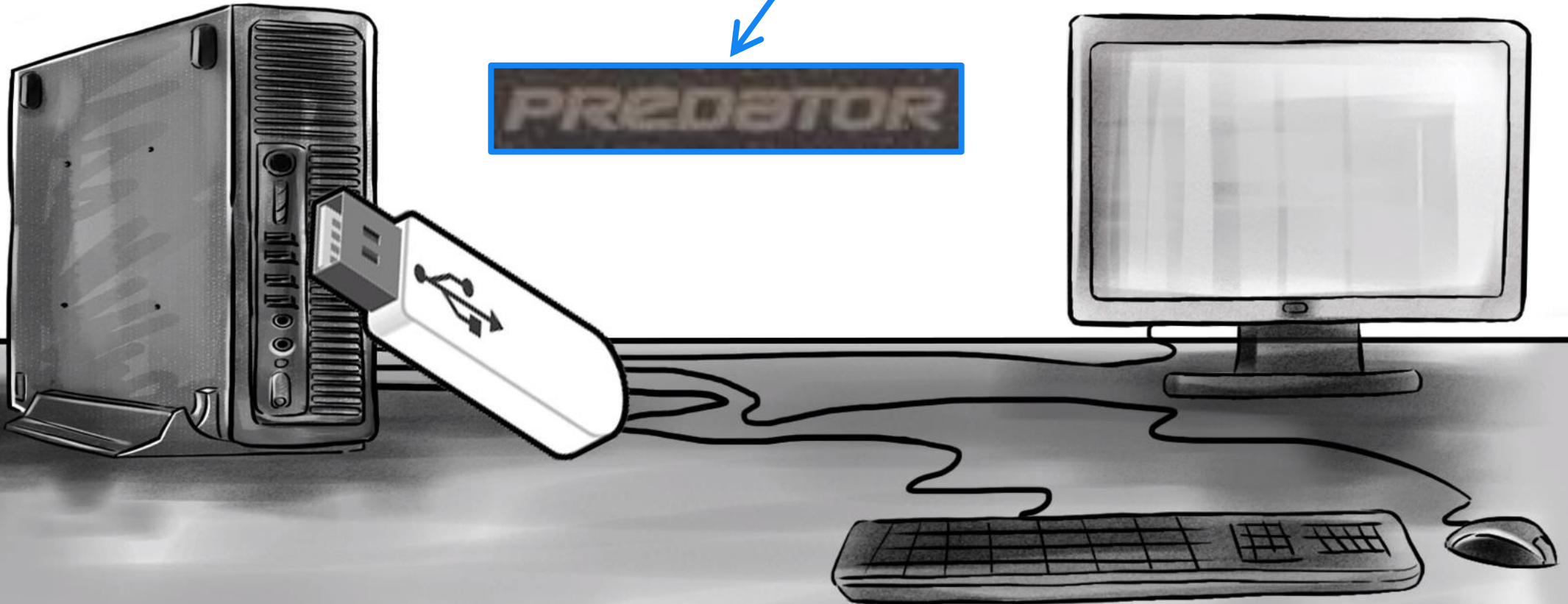


2TB



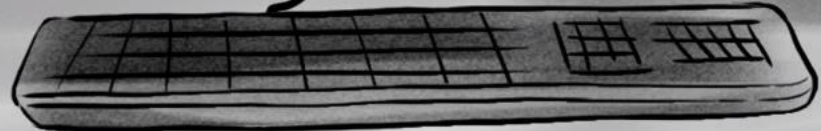
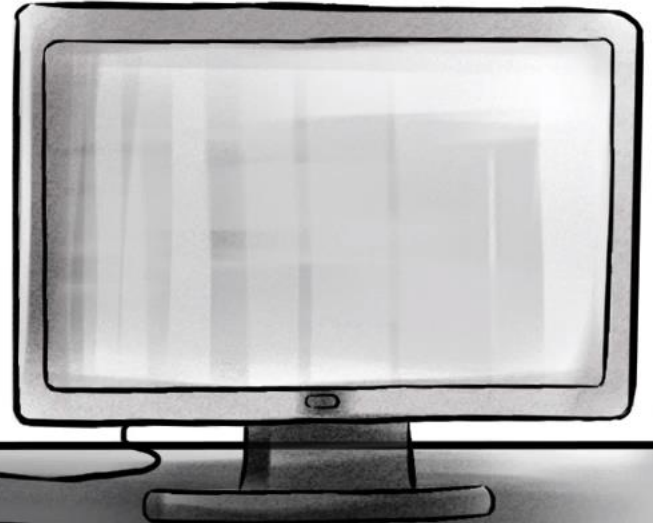
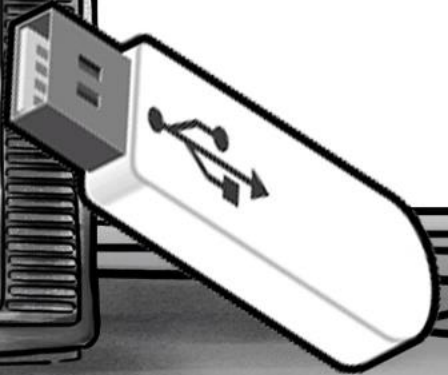
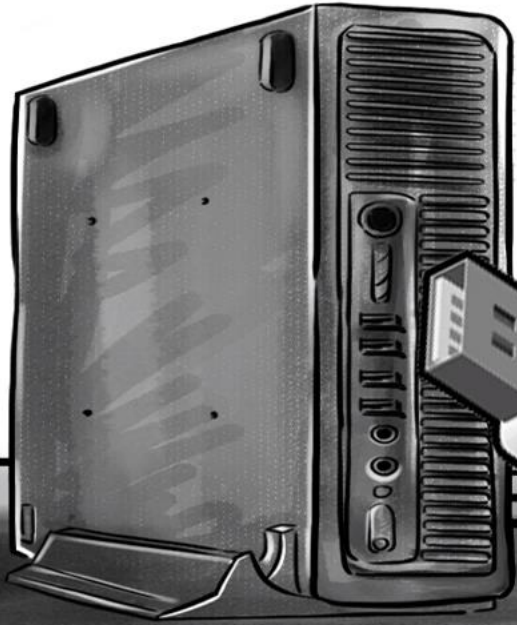


PREDATOR





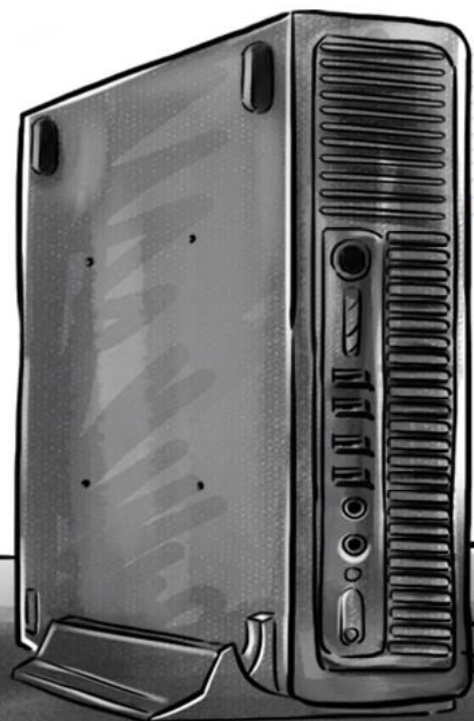
PREDATOR



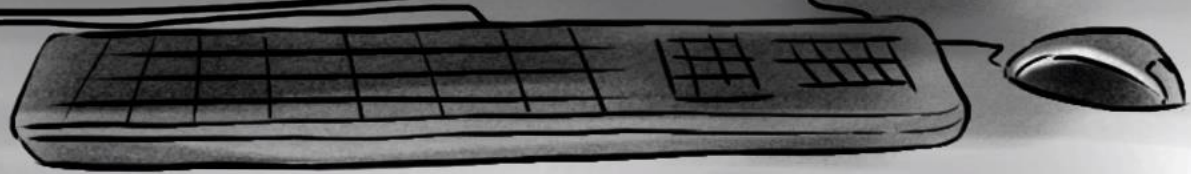
What Fits on a 2TB USB Flash Drive?



Format	No. 2-Hr Titles	Transfer Time per Title
ProRes 422 HQ - HD	13	2 mins
ProRes 4444 - HD	8	3
ProRes 422 - UHD	3	8
ProRes 4444 - UHD	2	12

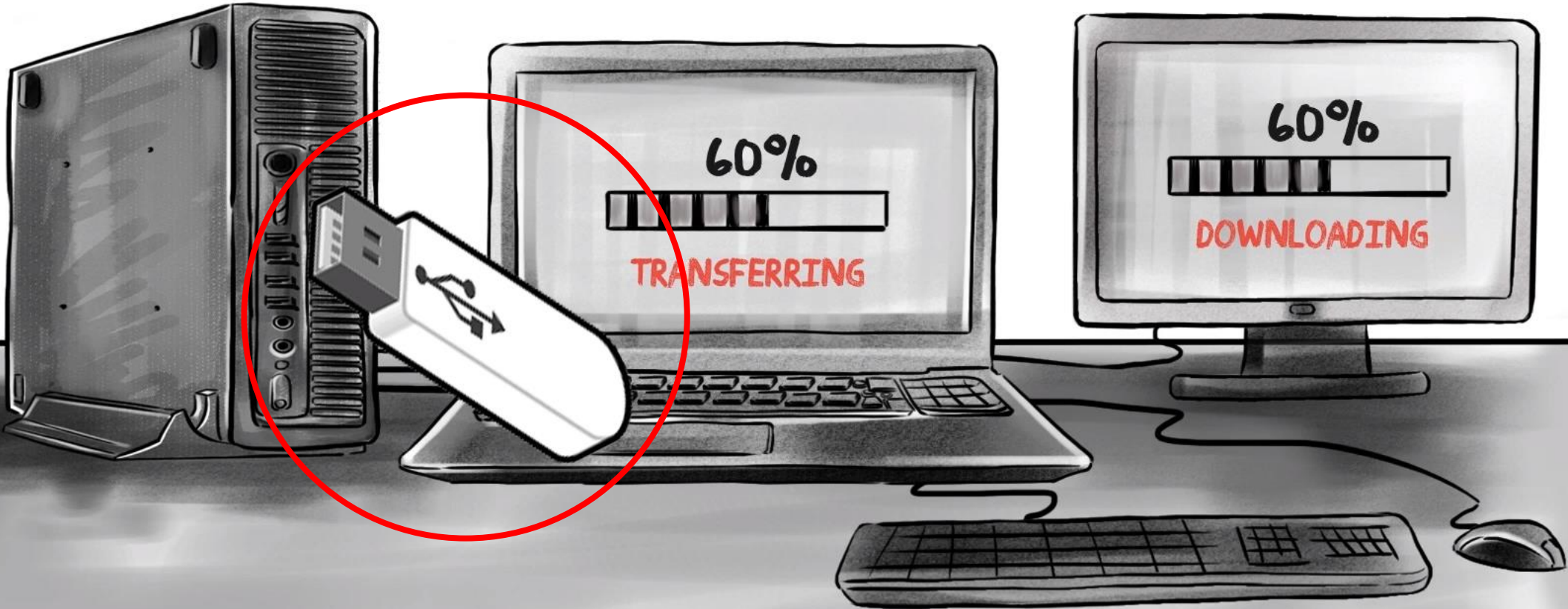


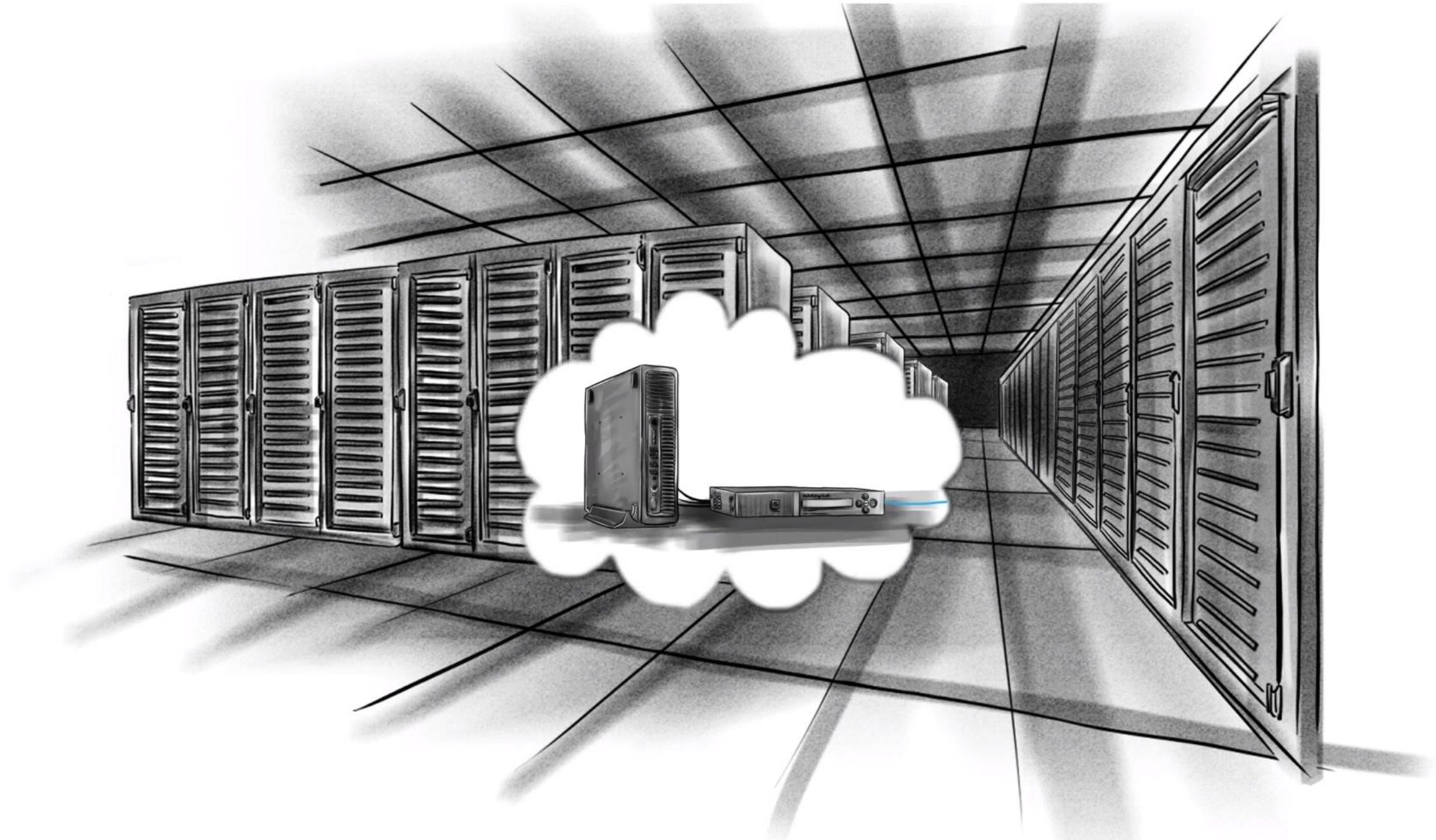
150 meters



BUILDING!

GET THE COMPUTERS OUT OF THE ROOM!







PIXELS →

← KEYBOARD STROKES
MOUSE MOVEMENTS



TRANSMITTER

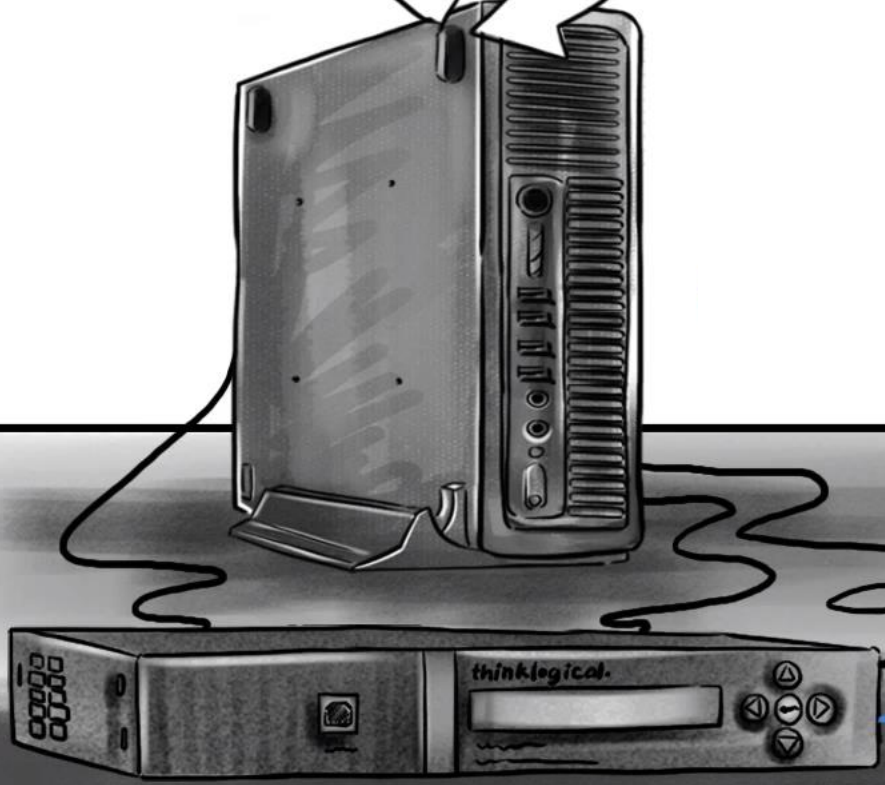


RECEIVER





- COMPRESSION
- LATENCY

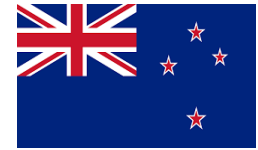
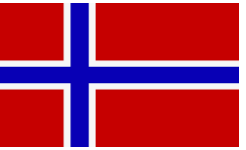
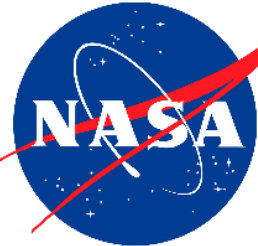


TRANSMITTER



RECEIVER

Selected Military & Intelligence Customers



- NO COMPRESSION
- NO LATENCY
- NO DROPPED FRAMES
- NO ARTIFACTS
- NO MOUSE JITTER



TRANSMITTER



RECEIVER

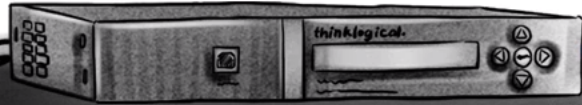


USER STATION





TRANSMITTER

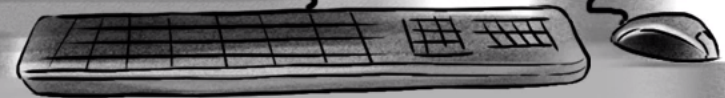


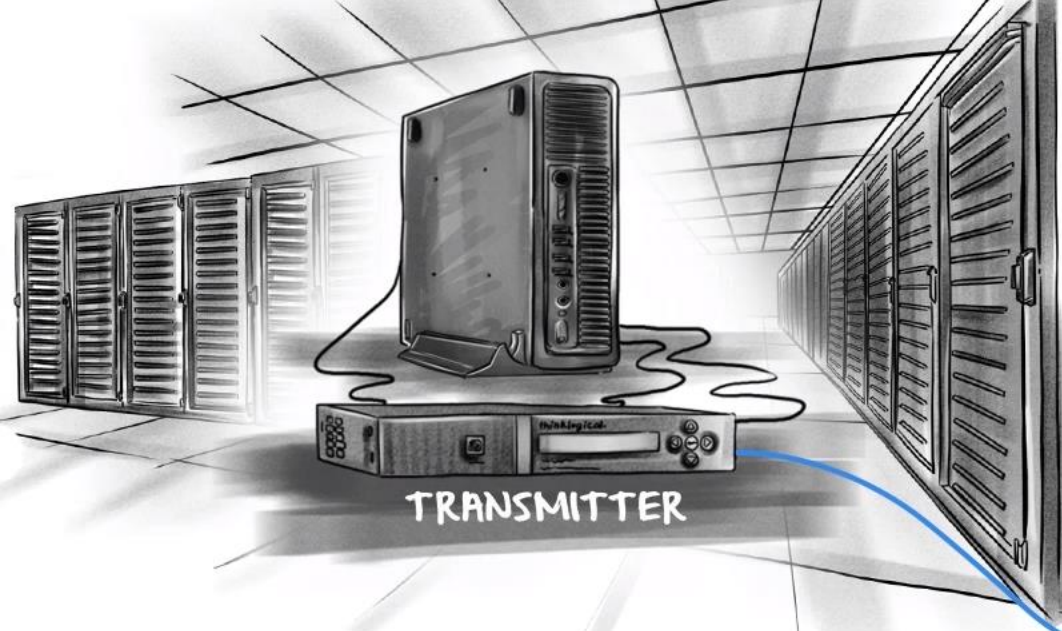
← 80km/50miles →

RECEIVER



USER STATION

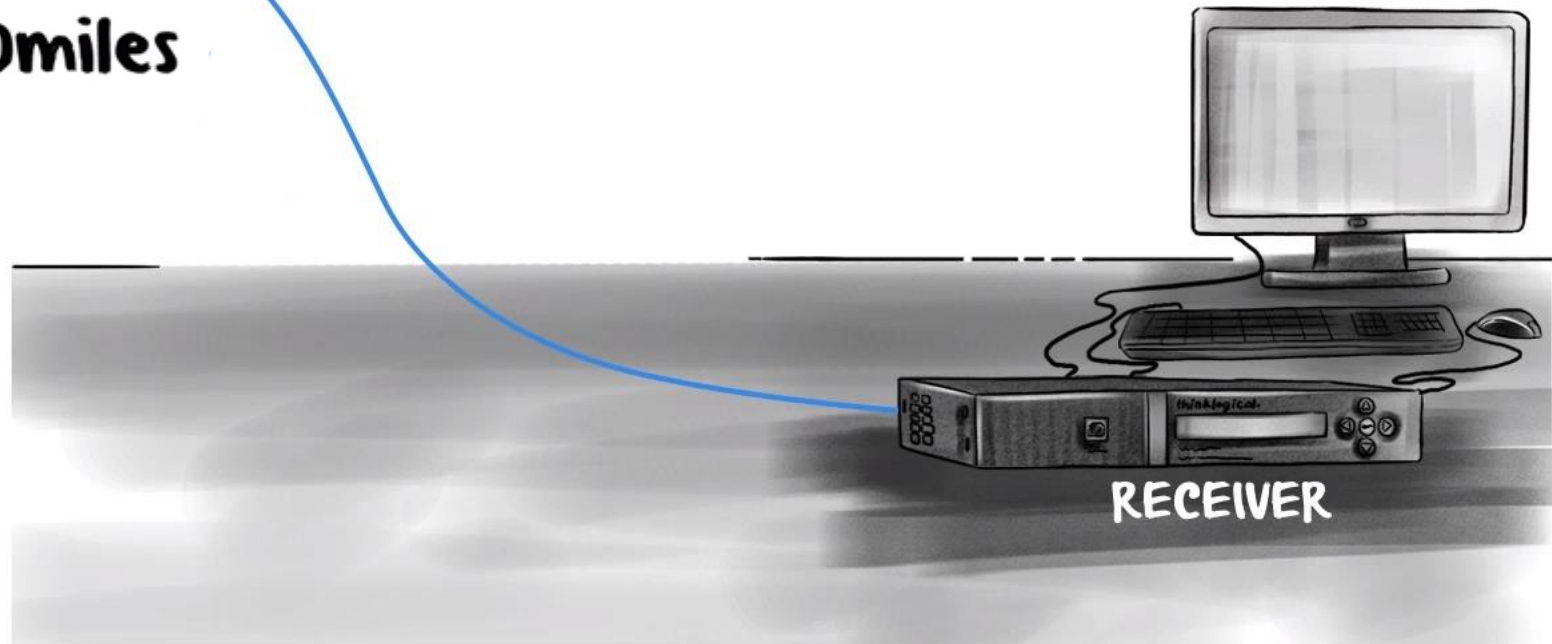




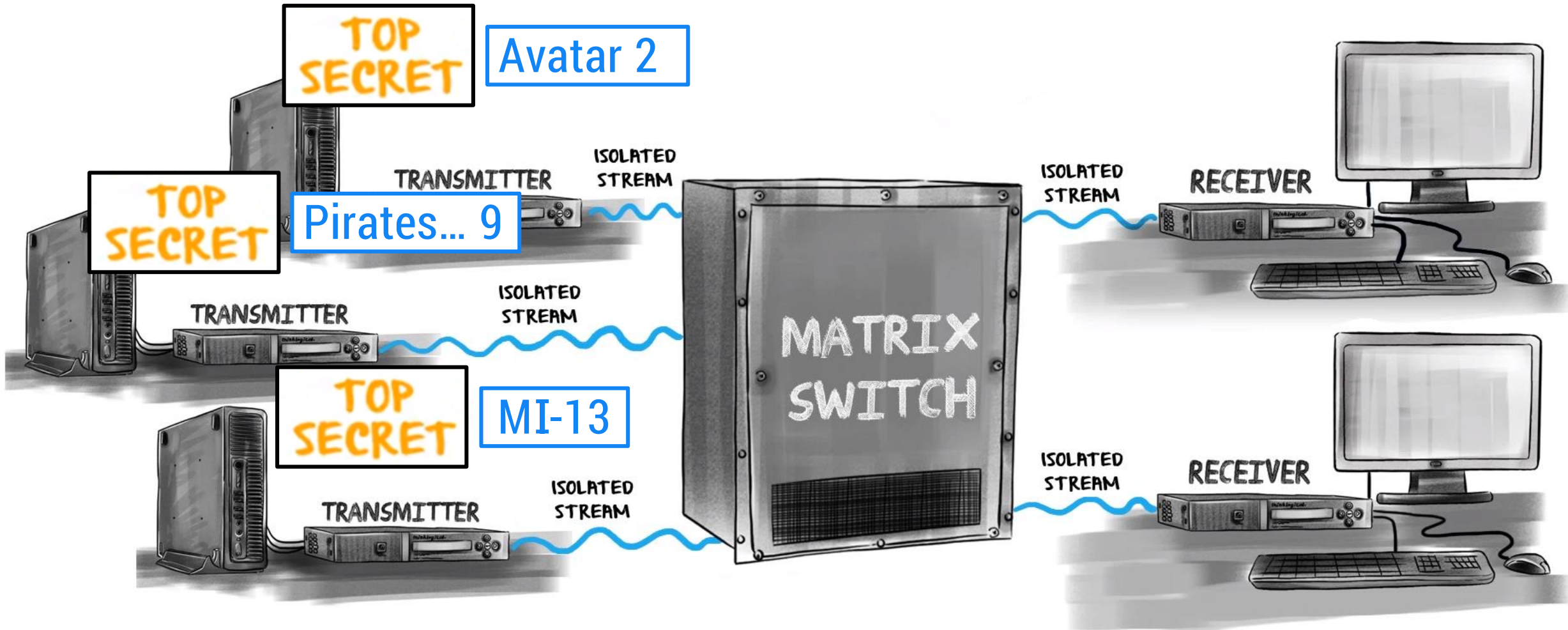
2X

- Uncompressed 4K DCI
- 4:4:4 chroma-subsampling
- 30-bits-per-pixel color depth
- Up to 60 fps

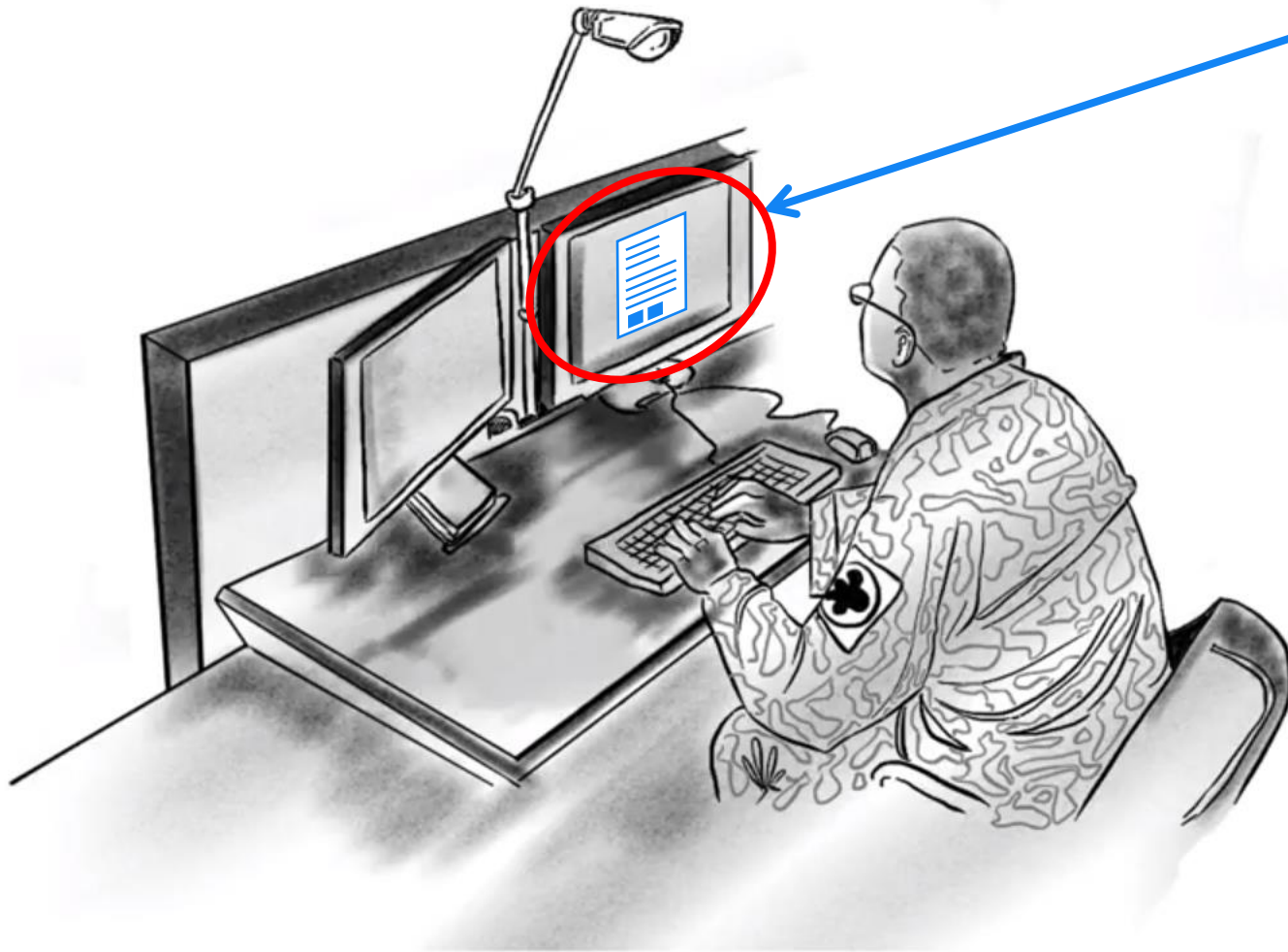
80km/50miles



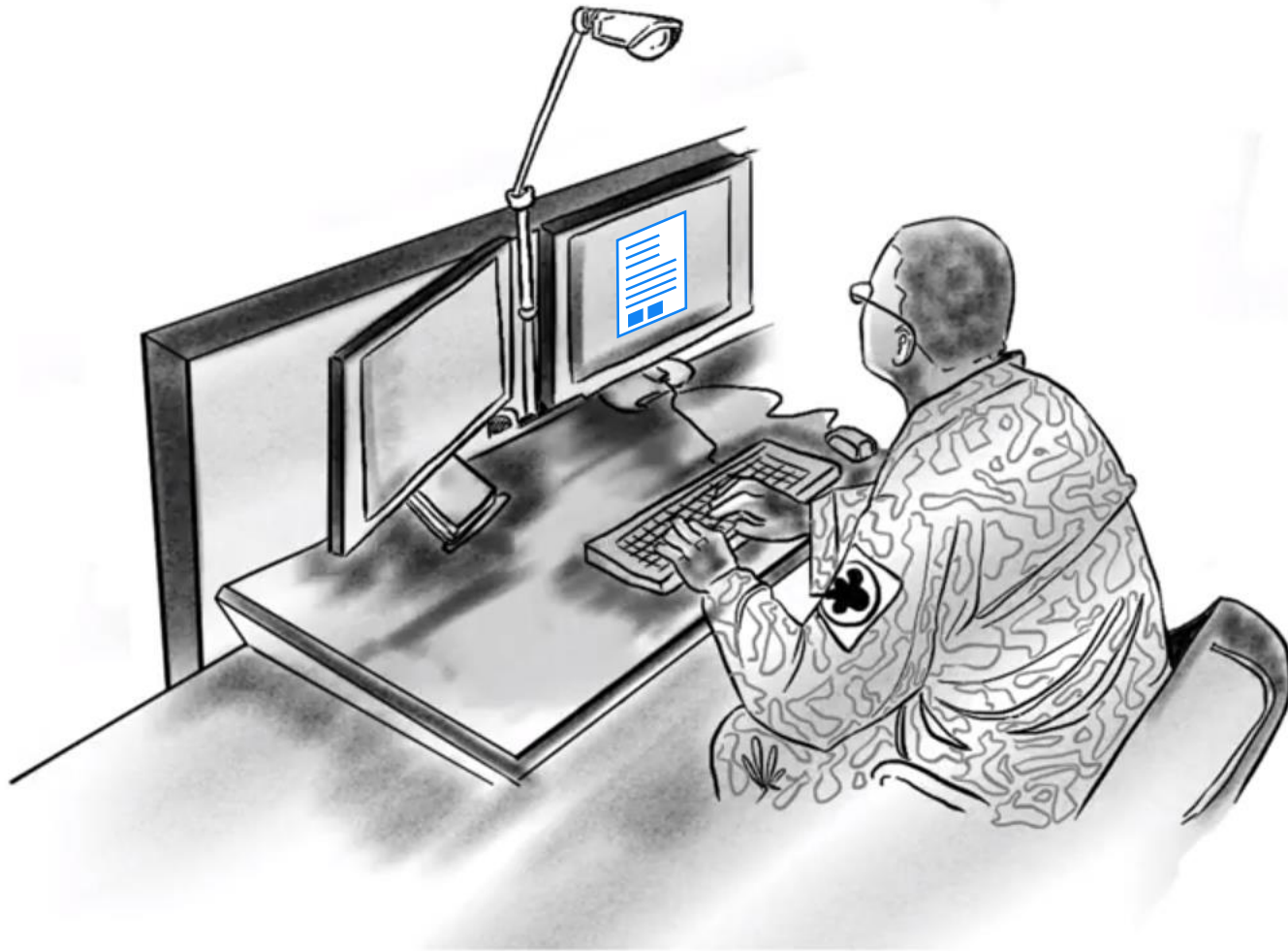
MULTIPLE CLASSIFICATIONS THROUGH A SINGLE SWITCH



ANY TO ANY SWITCHING CAPABILITY



Email Attachments?



Consider:

- Encrypted Email
- Encrypted Attachments

Ask yourself:

- Why so many Attachments?
- Exposes valuable Metadata

We need a Place For Our Stuff:

- Encrypted Metadata Lockers
- Tied to the Workflow
- Integrated in SW Tools

Summary:

- Get Computers out of the Building
- Get all Data out of the Building
- Put Proxy Content Data in Public Cloud
- Put Master Content Data in Private Cloud
- Consider Encrypted Email
- No Content Data / Metadata Attachments
- Promote the Concept of Encrypted “Lockers”
- Learn about Distributed Encrypted Storage

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