

PROVO SCHOOL
DISTRICT

Committed to No



whining

Focus on the integration and use of technology is the subject but not the purpose.

What's the purpose?

"Specially designed instruction, at no cost to parents, to meet the unique needs of a child with a disability."



National Education Technology Plan

Action Steps

To help states and districts prepare today's students for the opportunities and challenges of tomorrow, a set of seven action steps and accompanying recommendations have been developed.

Seven Major Action Steps and Recommendations

- 1. Strengthen Leadership**
- 2. Consider Innovative Budgeting**
- 3. Improve Teacher Training**
- 4. Support e-Learning and Virtual Schools**
- 5. Encourage Broadband Access**
- 6. Move Toward Digital Content**
- 7. Integrate Data Systems**

Acquisition of technology is not a victory.

- Simply providing access does not ensure that technology will effectively enhance teaching and learning and result in improved achievement.
- Providing access implies that all teachers and students will make optimal use of the technology. Technology may mean little without appropriate objectives and goals for its use, structures for its application, trained and skillful deliverers, and clearly envisioned plans for evaluating its effectiveness.

While they may have abundant computers, schools may not use them in the best ways to enhance learning.

A great deal depends on the levels of planning, structure, preparation, and evaluation of the potential impact that technology will have on teaching, learning, and achievement.

Experts believe that increasing capacity depends on enhancing the technology skills of teachers and administrators

Research reviews have generally concurred that:

- **When combined with traditional instruction, the use of computers can increase student learning in the traditional curriculum and basic skills area.**
- **The integration of computers with traditional instruction produces higher academic achievement in a variety of subject areas than does traditional instruction alone.**
- **Students learn more quickly and with greater retention when learning with the aid of computers.**
- **Students like learning with computers and their attitudes toward learning and school are positively affected by computer use.**
- **The use of computers appears most promising for low achieving and at-risk students.**
- **Effective and adequate teacher training is an integral element of successful learning programs based or assisted by technology.**

Life is change ... Growth is Optional



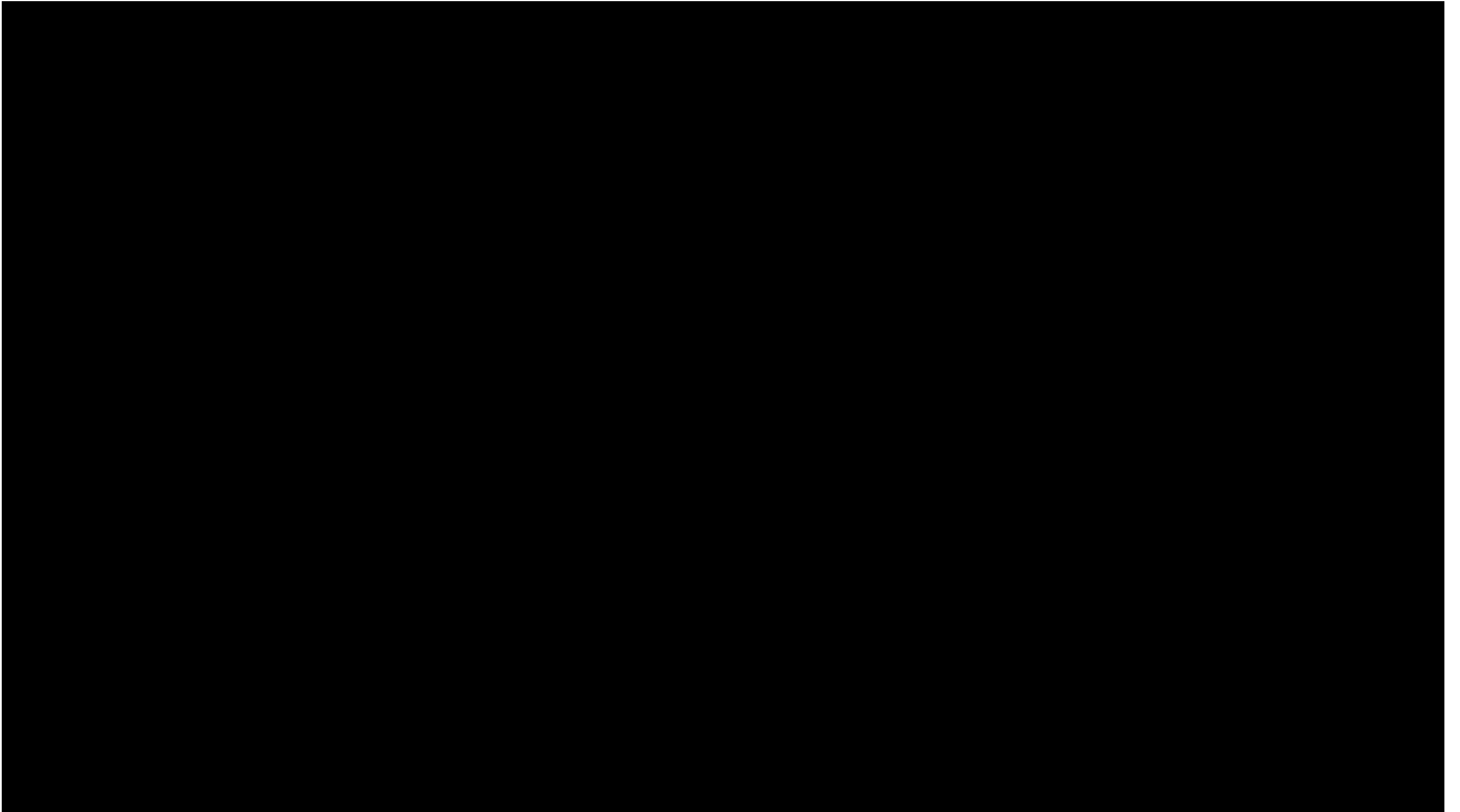
CHANGE/ INNOVATIONS AND SOCIETY





**How our culture is changing
is reflected in our humor.**

**Technology humor is
even dealing with the
generation gap.**

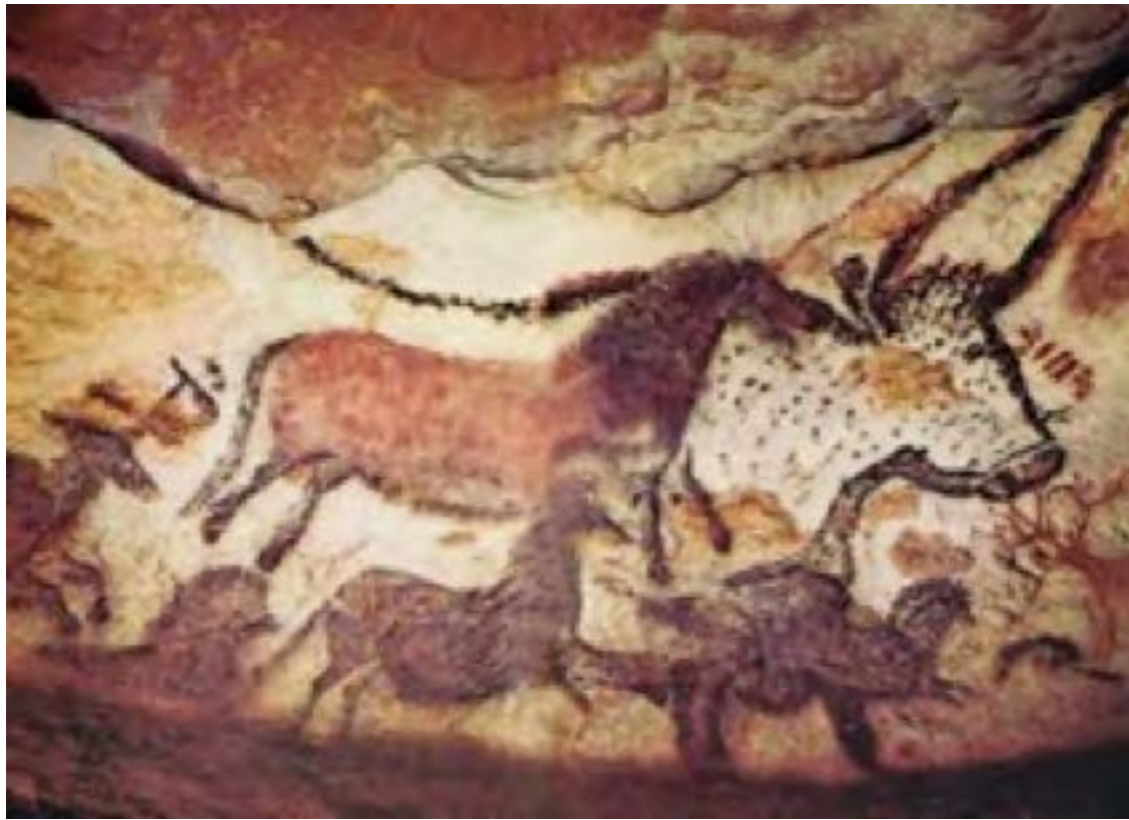




Technology Size and Science

Illusions of time, space and size.

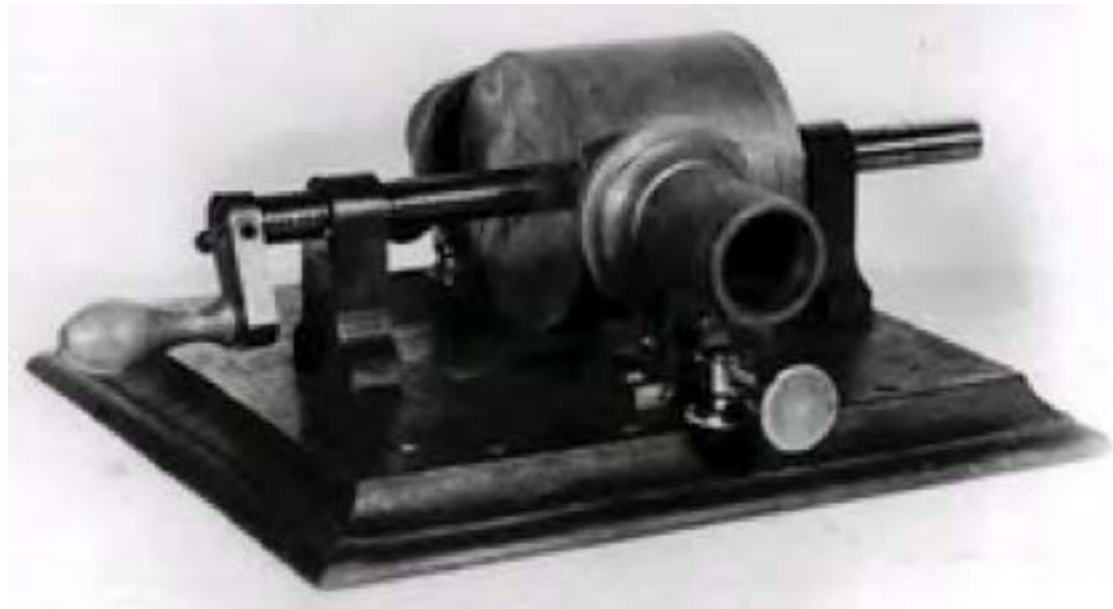
Communication and storage
has always been an interest
and need of society.



40,000 BC
Cave Paintings

100 BC
Paper





Phonograph
1877

Selectron Tube
1946



8" Floppy
1971



USB Flash
2001



Modern USB Flash Drive
1971

14,000,000,000 floppys = 1 Terabyte



Hard to carry



Hard to read



Hard to expand



Hard to beat



Hard to carry



Hard to read



Hard to expand



Hard to beat

February 2011

Provo School District has over **10,000** NODES?

What's a NODE?

- **Computers**

(main frames, core services servers, application servers, desktops, laptops)

- **Cell phones** • **iPads** • **iPods** • **HVAC Systems**

- **Networked Freezers** • **Printers** • **Projectors**

- **Audio Systems** • **White Boards** • **Telephones**

- **Security Systems** (cameras and motion detectors)

- **Access Control Systems** (keys) • **Intercom Systems**

- **Switches** • **Routers** • **Wireless Access Points**

How does information travel?

How does information travel?

Growth of Wide Area Network

56k (56,000 bits per second)

56k (56,000 bits per second)

T-1 (1,540,000 b.p.s.)

56k (56,000 bits per second)

T-1 (1,540,000 b.p.s.)

100mb (100,000,000 b.p.s.)

56k (56,000 bits per second)

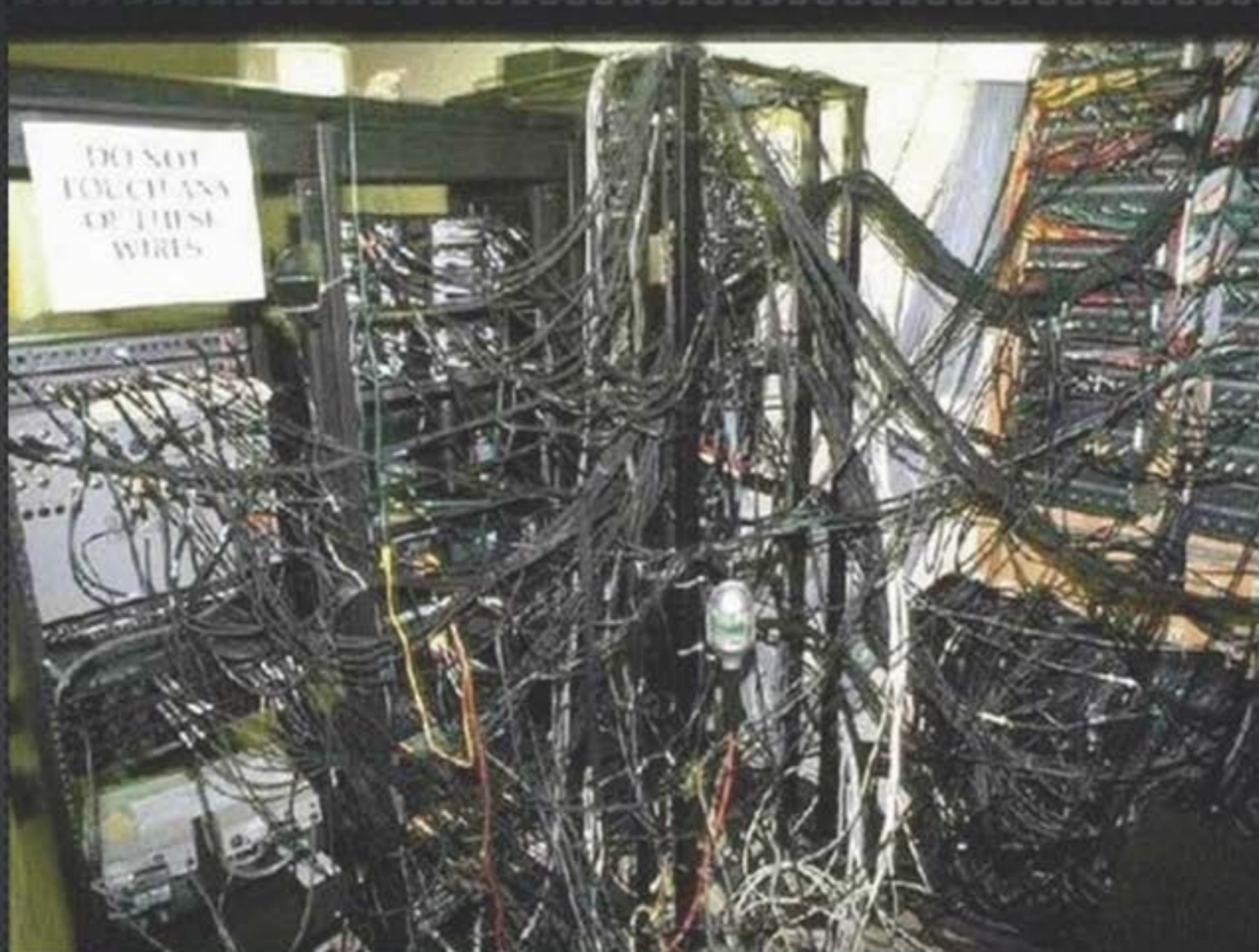
T-1 (1,500,000 b.p.s.)

100mb (100,000,000 b.p.s.)

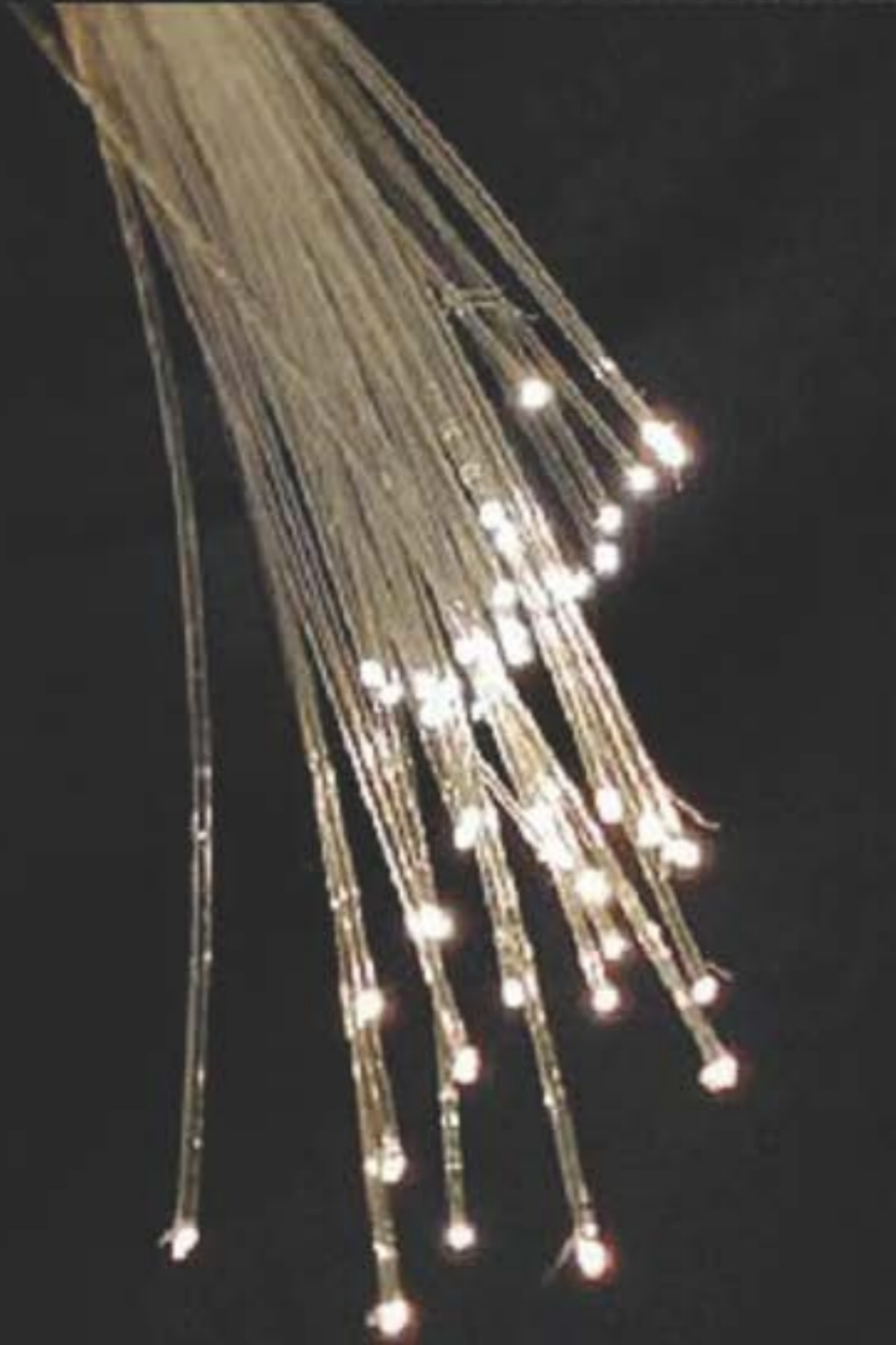
1gb (1,000,000,000 b.p.s.)

**What has this done
to Tech Support?**

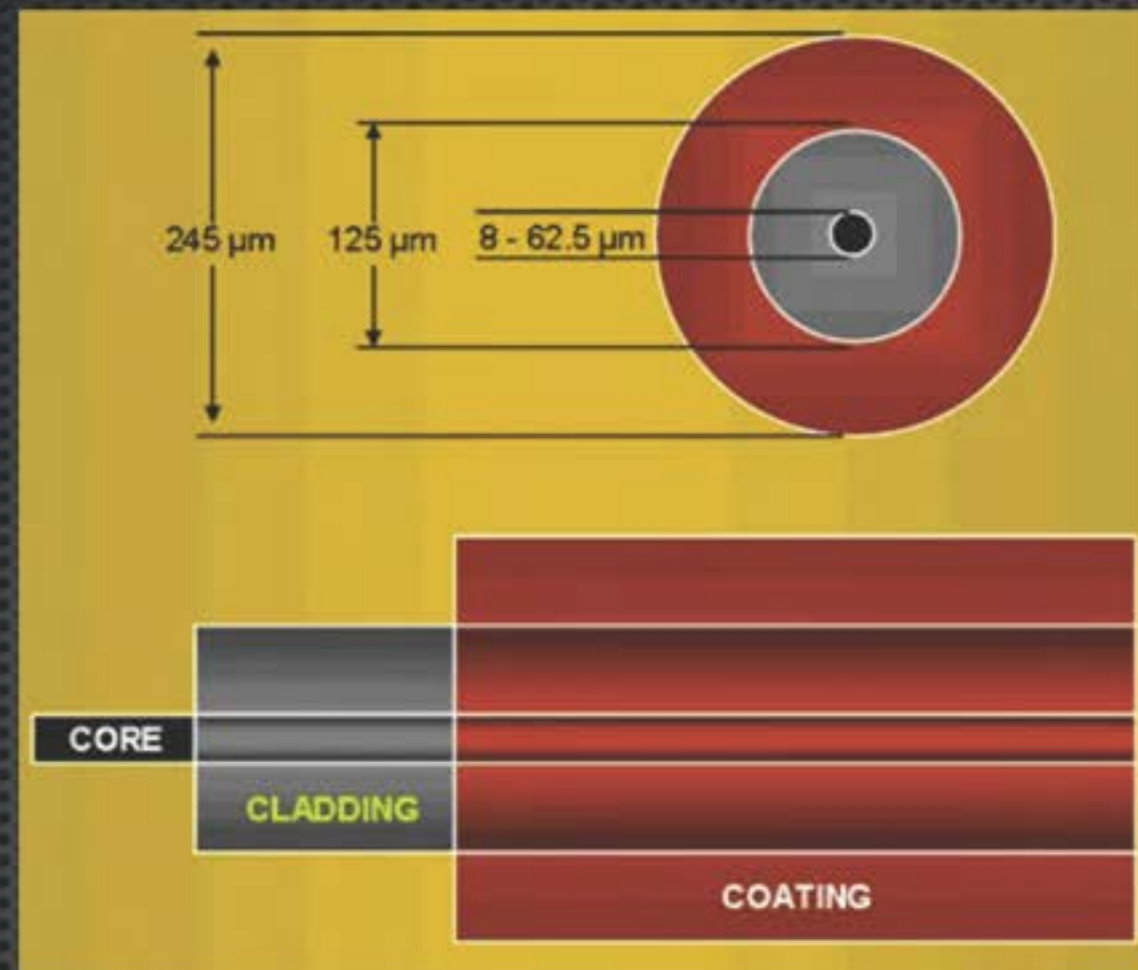
What has this done to Tech Support?



Fiber Optics



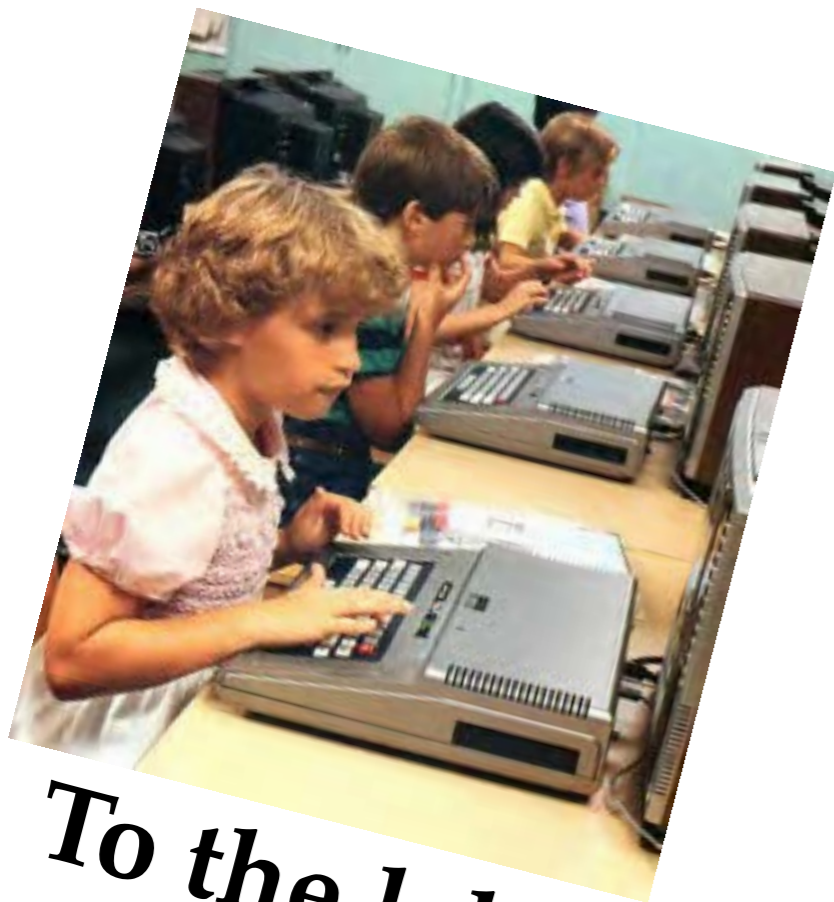
Fiber Optics



Consider Innovative Budgeting

Needed technology often can be funded successfully through **innovative restructuring and reallocation of existing budgets** to realize efficiencies and cost savings.

- **Use old money new ways... challenge practices**
 - **Are funds targeted or discretionary?**
 - **Fund what you need to reach your goals.**



To the lab...



To the class...

To the student ...

