

BEYOND THE PC

Paradigm shifts for job seekers



By Wayne Caswell

Technical Marketing, Consumer Advocate, Futurist

JOB SEARCH SEQUENCE

- 1. Financial Plan** – How long can you go?
- 2. Self Assessment** – Skills, Aptitude, Interests, Values, Personality
- 3. CAREER ASSESSMENT** – Research Opportunities
- 4. Marketing Plan** – Like a Business Plan for YOU
- 5. Action Plan** – Get Education & Credibility
- 6. Prepare Tools** – Business Card, Resume, Cover Letter, References, Recommendations, LinkedIn, Facebook, Blog, Twitter, Website
- 7. Get Interviews** – at Target Companies
- 8. Get Offers** – Negotiation, Accept

BEYOND THE PC

A job that Fits Today and **Tomorrow?**



Shapes & Sizes
Colors & Patterns
Exposure & Angle



Shapes & Sizes
Colors & Patterns
Exposure & Angle



Shapes & Sizes
Colors & Patterns
Exposure & Angle

HELP WANTED
PROJECTIONS
of JOBS and
EDUCATION
REQUIREMENTS
Through **2018**

<http://cew.georgetown.edu/jobs2018>

- **When will the jobs come back?
Which occupations?**
- **Where will the jobs be?
Which states? Which industries?**
- **What certificates and degrees
will be required?**

HELP WANTED
PROJECTIONS
of JOBS and
EDUCATION
REQUIREMENTS
Through **2018**

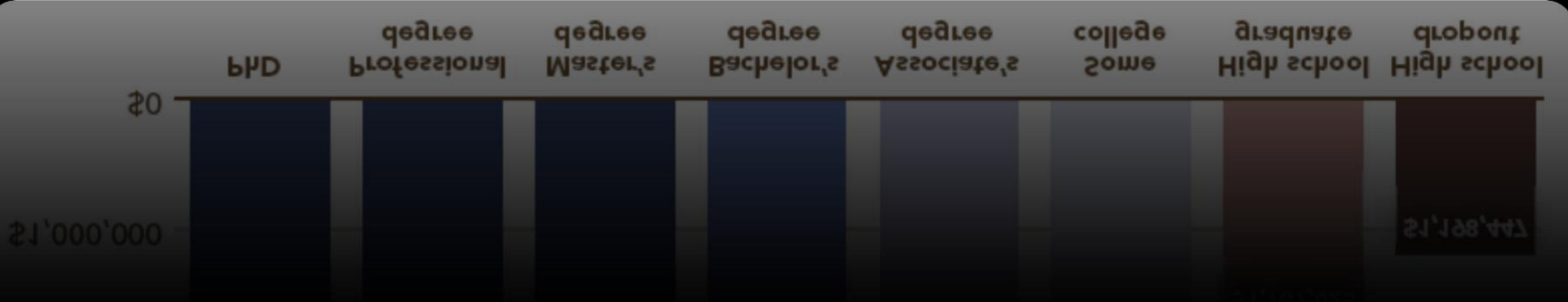
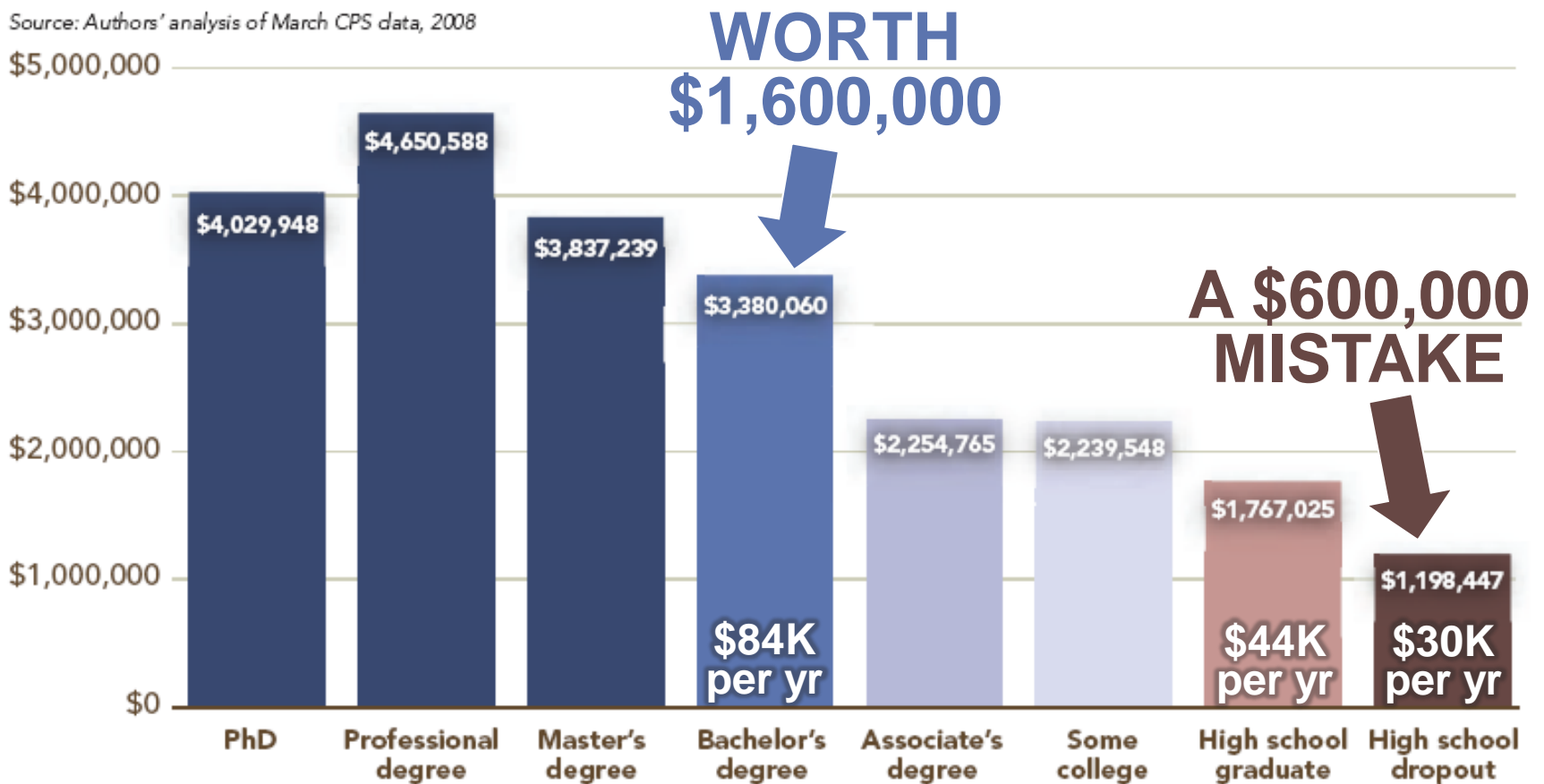
<http://cew.georgetown.edu/jobs2018>

- Will the education system be able to keep up?
- How much will it cost to fund America's education needs?
- Is that cost Justified?

Wage Premium by Education

Estimated average lifetime earnings by education level. (in current dollars)

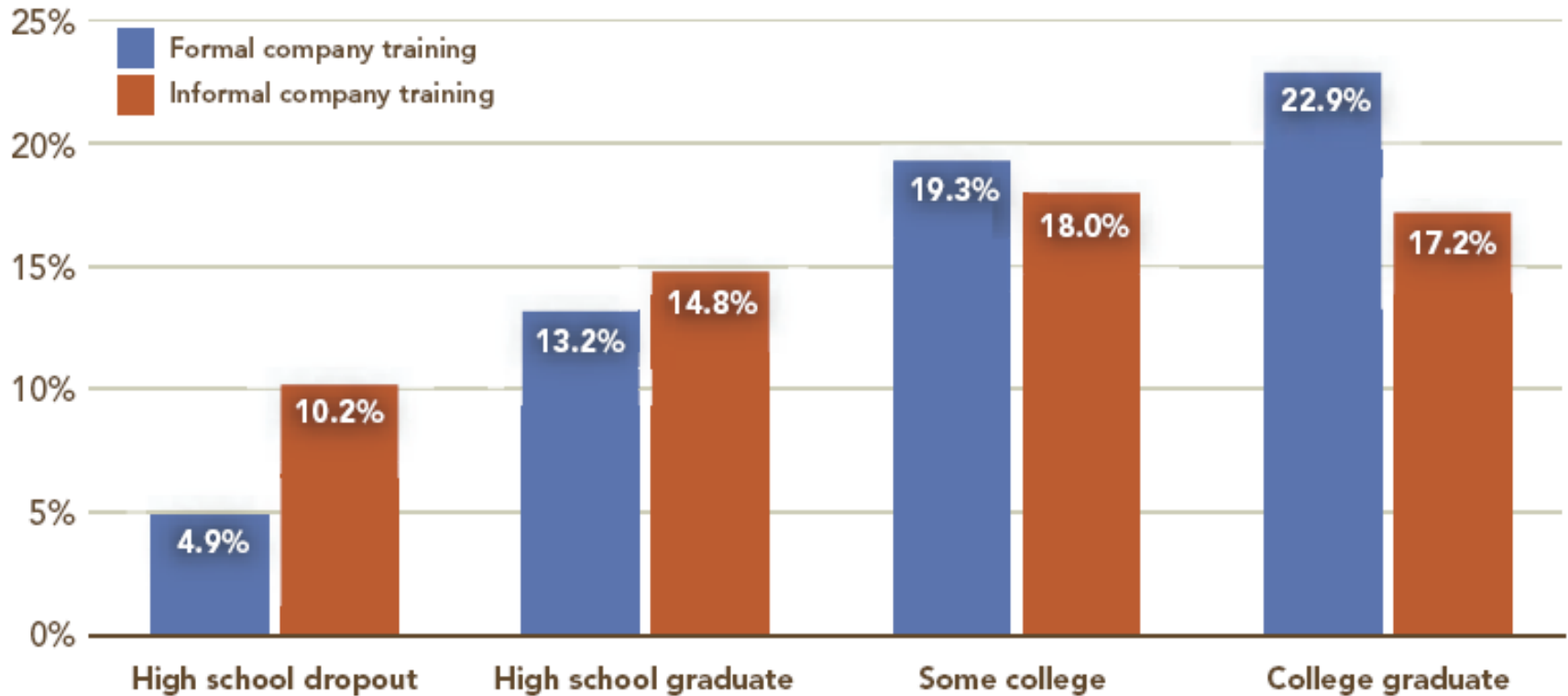
Source: Authors' analysis of March CPS data, 2008



Education as Gateway to Further Training and Greater Earning Potential

Workers with the most education receive the most training. (percent receiving training)

Source: Estimate based on Eck, 1993.



MORE HIGHLIGHTS

- Middle Class Shrinking as the less educated fall into poverty
- 63% of ALL jobs will Require some college by 2018.
- **SURPRISE:** 43% w/ License/Certification earn more than those w/ Associate's; 27% earn more than w/ Bachelor's. 31% w/ Associate's more than w/ Bachelor's.

MORE HIGHLIGHTS

- **NO MENTION:** Trade Schools & Apprentice Programs
- **NO MENTION:** Entrepreneurism
- **BIAS:** Is the objective to develop Workers for Corporations rather than Entrepreneurs to compete with them?

BEYOND THE PC

Paradigm shifts for job seekers



By Wayne Caswell

Technical Marketing, Consumer Advocate, Futurist

Exponential Growth



TECH EVOLUTION

- Memory
- Processor
- Network
- Storage

Exponential Growth

	ACGR	1981 PC	2008 PC	2018*	2038*
Memory	50.5%	64 KB	4 GB	239 GB	900 TB



IBM PC 5150



DELL XPS 720 H₂C

Exponential Growth

	ACGR	1981 PC	2008 PC	2018*	2038*
Memory	50.5%	64 KB	4 GB	239 GB	900 TB
CPU	57.1%	0.3 MIPS	59K MIPS (GIPS)	1.3M MIPS (TIPS)	45 B MIPS (PIPS)



IBM PC 5150



DELL XPS 720 H₂C

Exponential Growth

ACGR		1981 PC	2008 PC	2018*	2038*
Memory	50.5%	64 KB	4 GB	239 GB	900 TB
CPU	57.1%	0.3 MIPS	59K MIPS (GIPS)	1.3M MIPS (TIPS)	45 B MIPS (PIPS)
Network	53.2%	300 bps	30 Mbps	2.1 Gbps	10 Terabits



IBM PC 5150



DELL XPS 720 H₂C

Exponential Growth

ACGR		1981 PC	2008 PC	2018*	2038*
Memory	50.5%	64 KB	4 GB	239 GB	900 TB
CPU	57.1%	0.3 MIPS	59K MIPS (GIPS)	1.3M MIPS (TIPS)	45 B MIPS (PIPS)
Network	53.2%	300 bps	30 Mbps	2.1 Gbps	10 Terabits
Storage	78.5%	160 KB	1 TB	329TB	30 Exabytes

Other Factors Affecting Growth



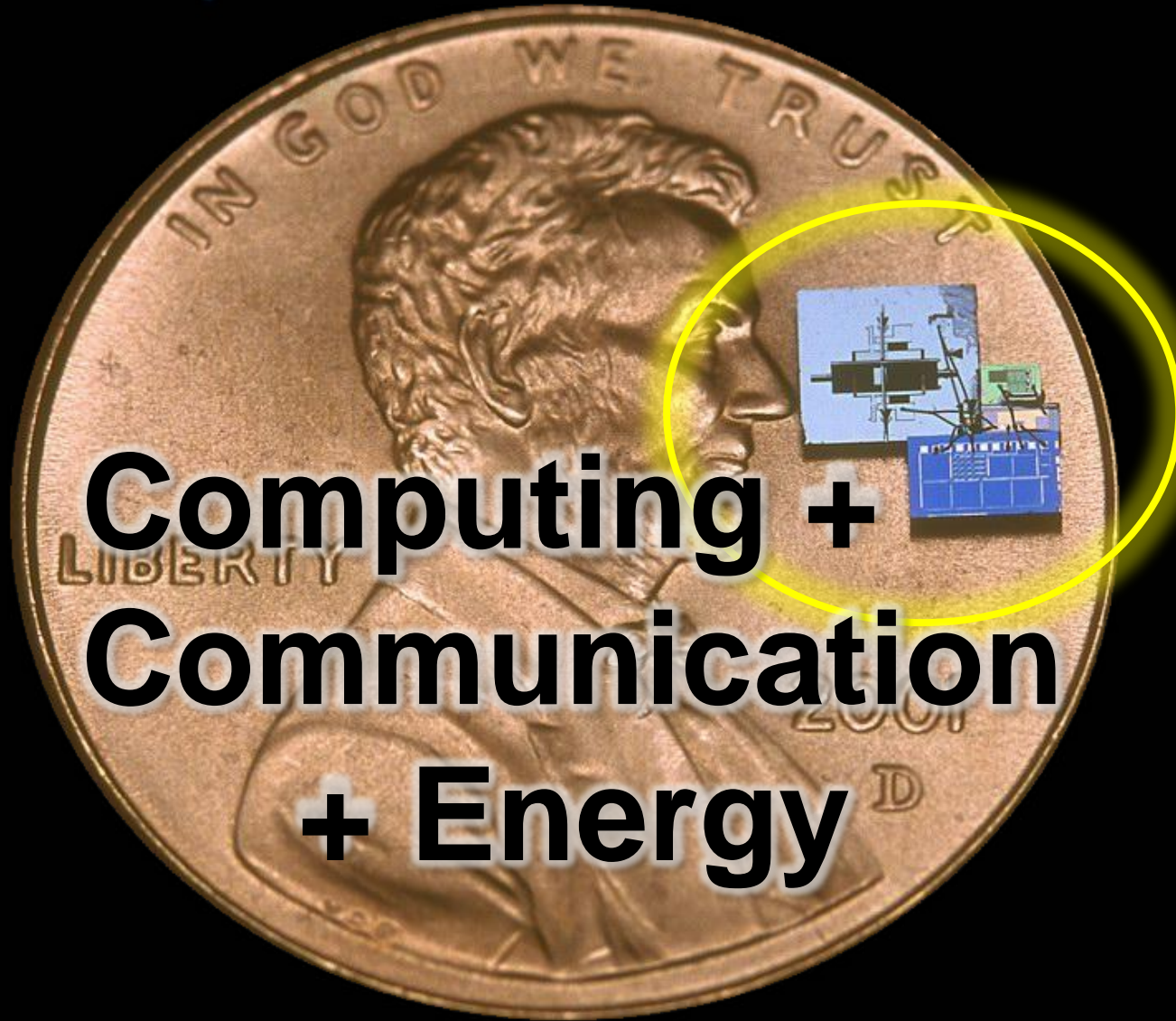
Politics & Consumer Adoption Curve

Mobile Computing and the “Cloud”

Network of Things (hundreds / person)

Network of THINGS

Kurzweil's Exponential Pace of Innovation



IBM mainframe versus

PHILIPS
sonicare
the sonic toothbrush

IBM System/370 Model 158

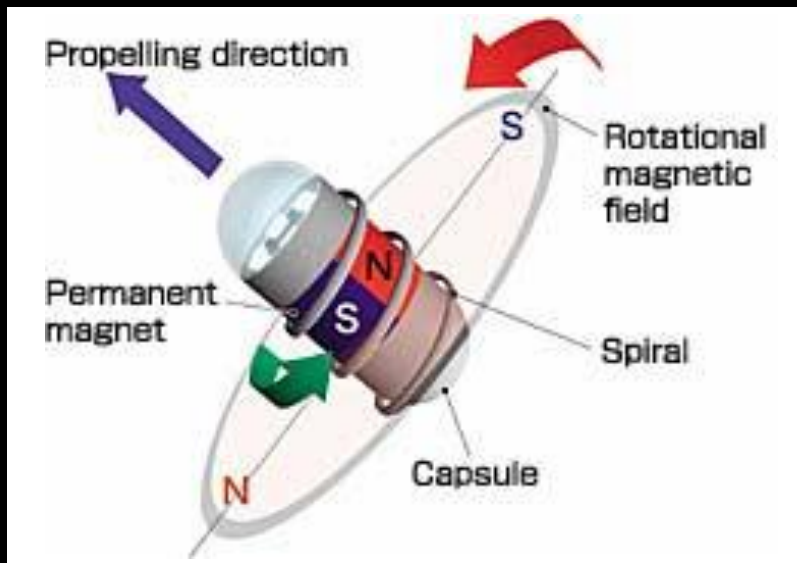
- 32-bit processor
- 1 MIPS
- 1 MB of memory

My Toothbrush

- 8-bit Zilog Z8 microprocessor
- **10 MIPS**
- 16 KB of Flash memory

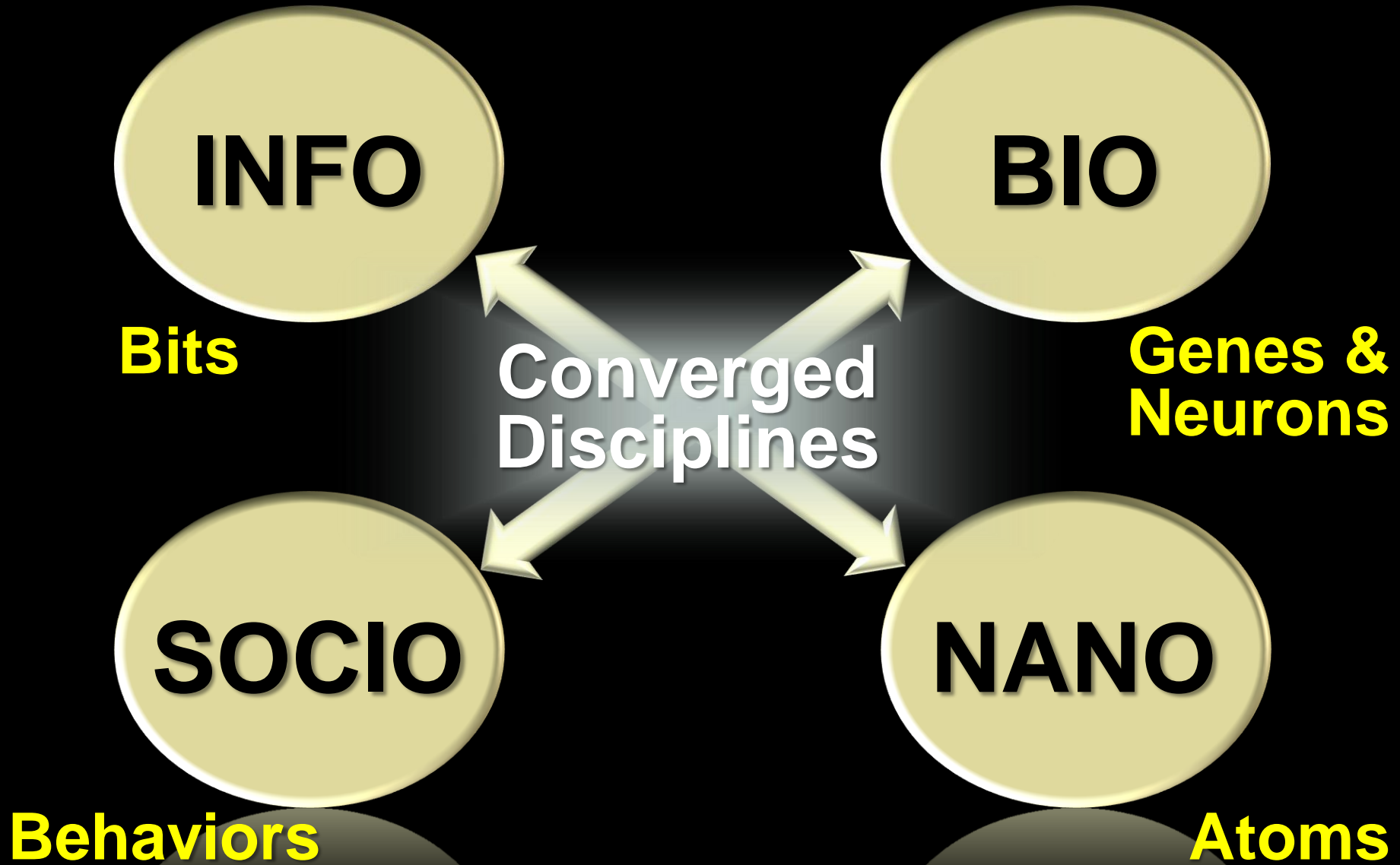


University of Glasgow's Lab-in-a-Pill



Control Chip +
Gyroscope +
Sensors +
Batteries +
RF Transmitter

5th Generation Computing



“Robi” the Robo-Rat

