

HCI: HUMAN FACTOR

HCI COMP341

Goals, Importance, Issues and Motivating Factors

REVIEW

- Subject Introduction
- HCI Definition
- Content
- Method
- Material

OVERVIEW

- Goals of System Engineering
- Goals of UI Design
- Motivating Factor and Application Area
- Diversity Issues
- Major Goals of UI Engineering

ASSIGNMENT



INTERACTION

does HCI applies only to Computers?

GOALS OF SYSTEM ENGINEERING



PROPER FUNCTIONALITY

Does system provides what it is meant for?



USERS NEED

Reliability, Availability, Security and Data Integrity



UP TO PAR

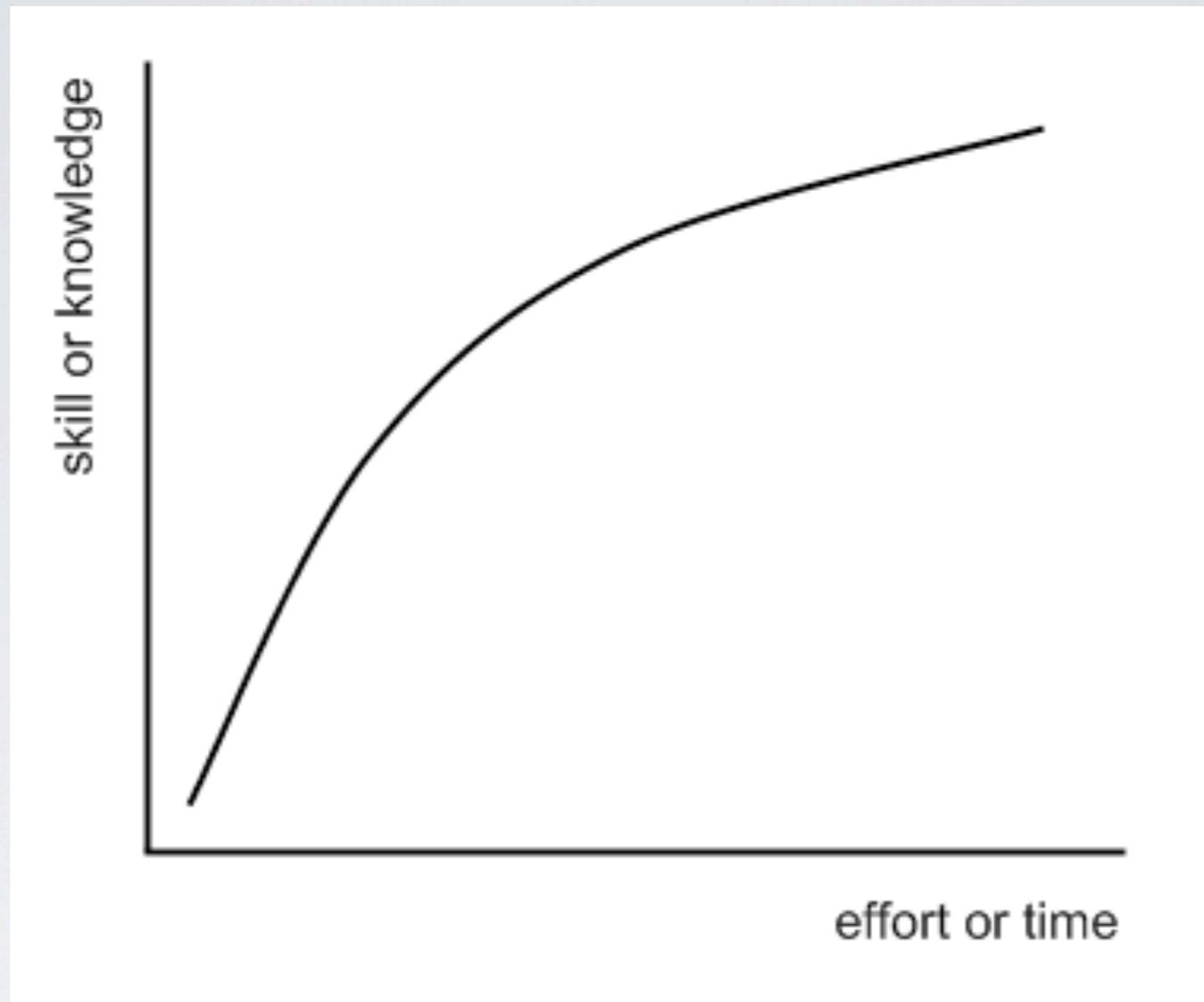
Standardization, Integration, Consistency & Portability



PLANNING

Schedule, Budget and Appropriate Technology

GOALS OF UI DESIGN



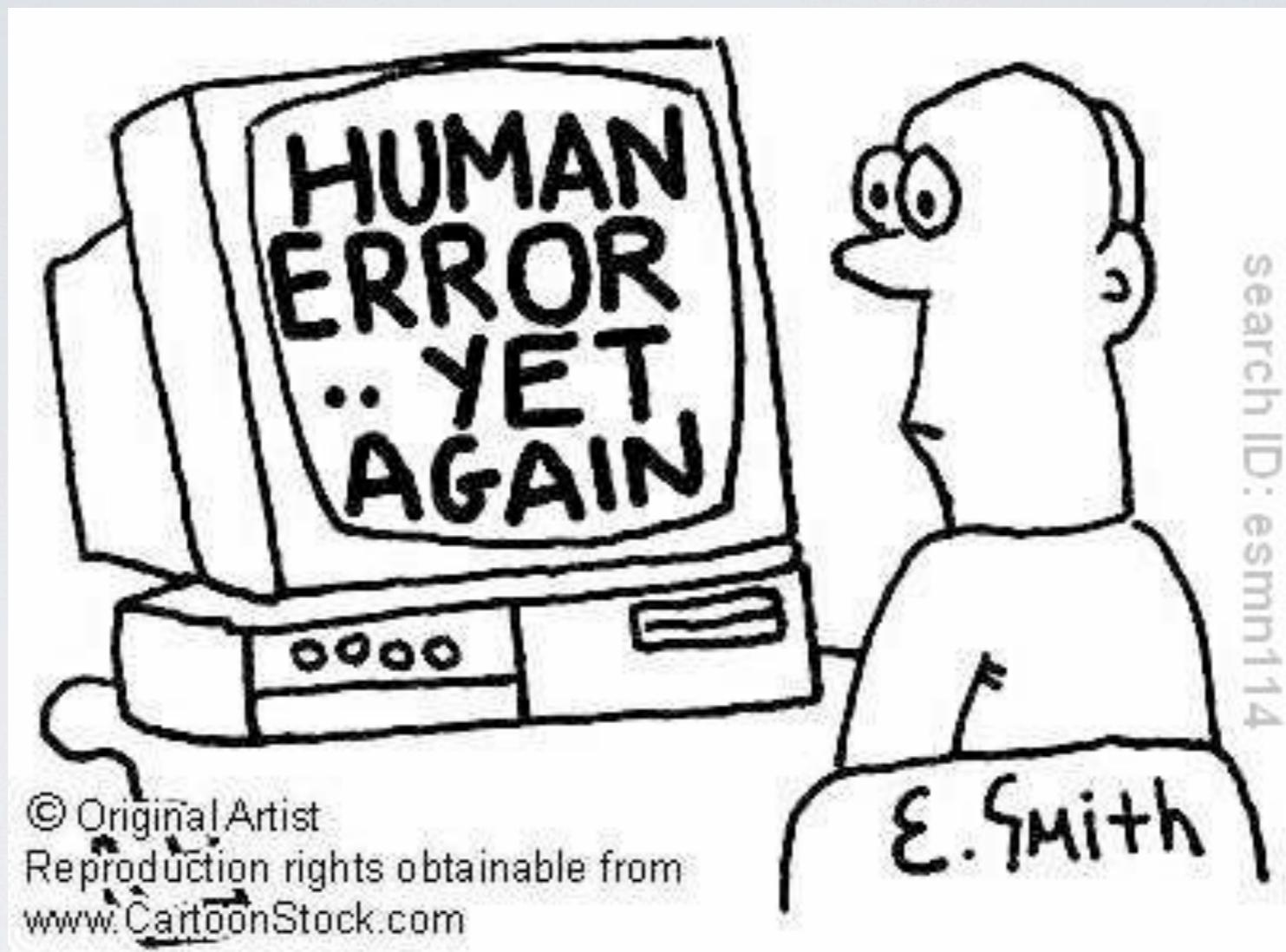
LEARNING CURVE

How much does it take to understand the system?



USAGES EFFICIENCY

How long does it take to carry the tasks?



search ID: esmn114

ERRORS

What errors user make while doing tasks? (id10t)



RETENTION

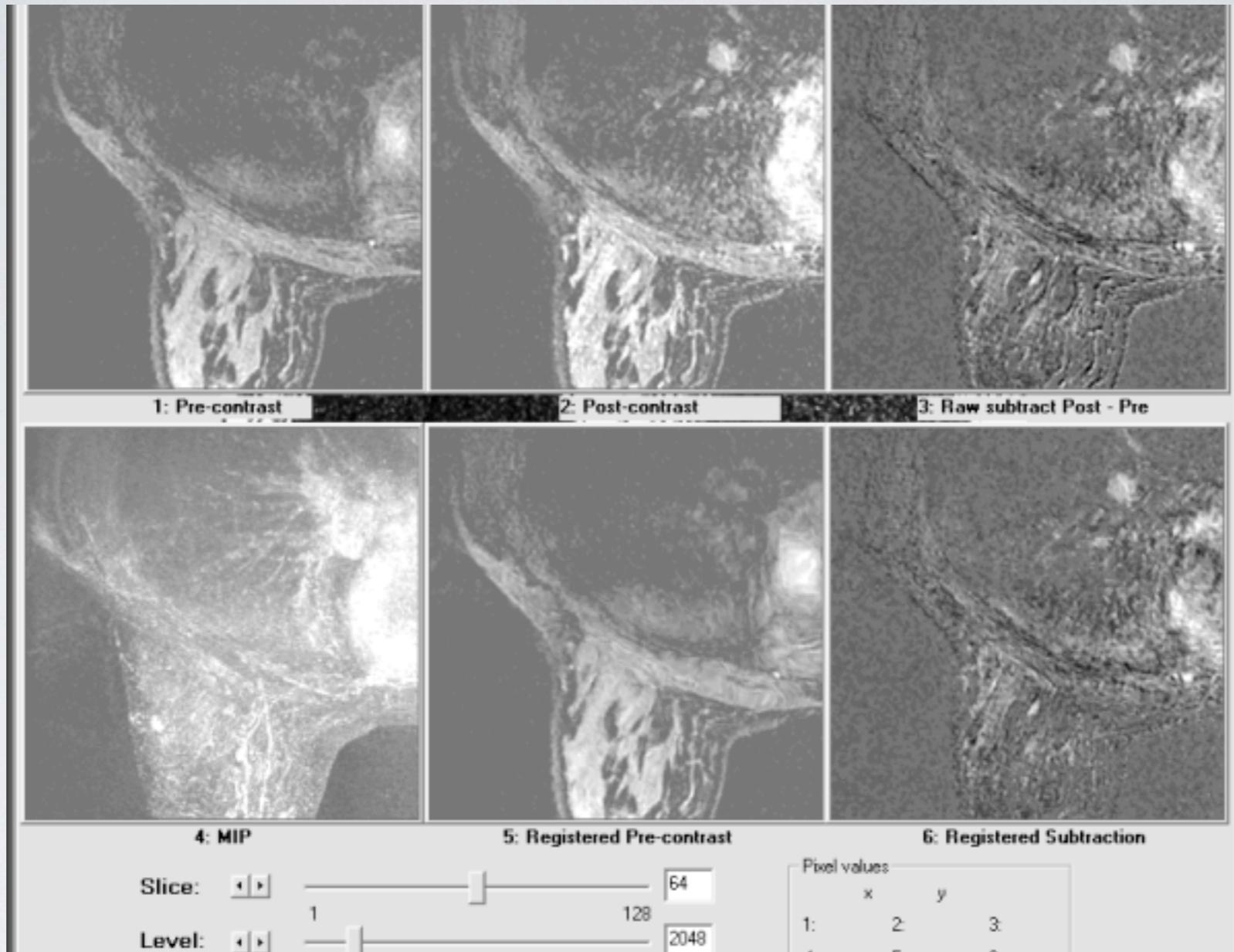
Do user remember what and how they did the task?



SATISFACTION

Do user like the system?

MOTIVATING FACTOR
&
APPLICATION AREA



MISSION CRITICAL

real time, medical, emergency response, space & war.



ECONOMICAL

Industrial and Commercial Usages



DAILY USAGES

housekeeping and entertainment applications



CREATIVE TOOLS

Knowledge based, interactive tools

DIVERSITY ISSUE



PERSONAL ABILITY

average user, ergonomics and physical ability



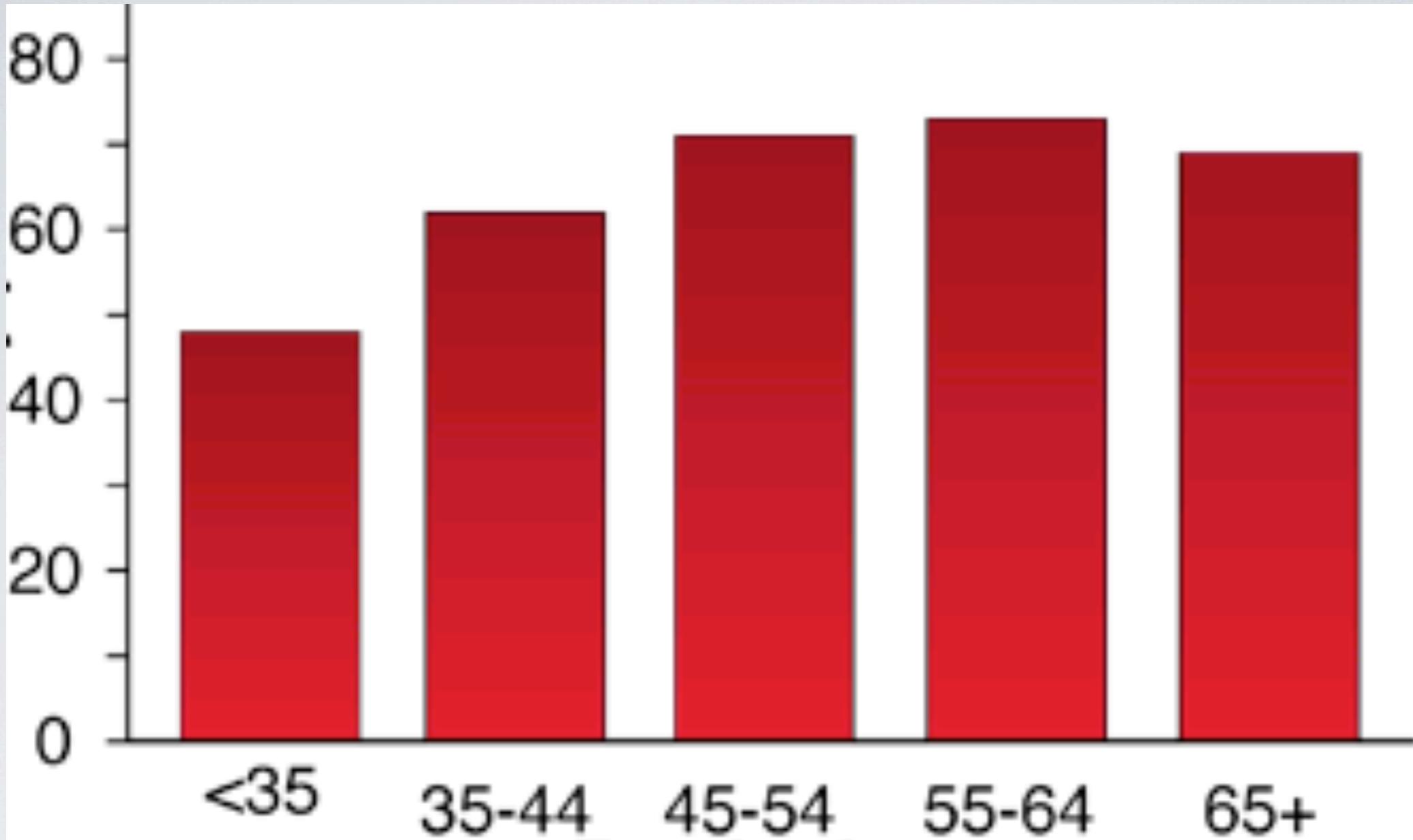
WORKSPACE

variation of working states and environment

**PI=3.141592653589793
2384626433832795028
8419716939937510....**

COGNITIVE ABILITY

memory, perception, problem solving, decision making etc.



PERSONALITY

anxiety with technology, trust issues and eagerness

Arabic **Initial** letter forms

ب ت ث ج ح د س ش ص ض
ط ظ ء غ ف ق ك ل م ز ه ي

Arabic **Medial** letter forms

ض ص ش ش س خ خ خ خ خ خ
ك ك ك ك ك ك ك ك ك ك ك ك ك ك ك

CULTURE

Internationalization, different language and cultural parameter

Braille Phone

Universal Cellular Phone can raise a part of its surface like a Braille using EAP(Electric Active Plastic), enabling communications between visually challenged people and others.



ACCESSIBILITY

differently able people, assistive technology



AGE FACTOR

kids, adults and elderly and their difference

MAJOR GOALS



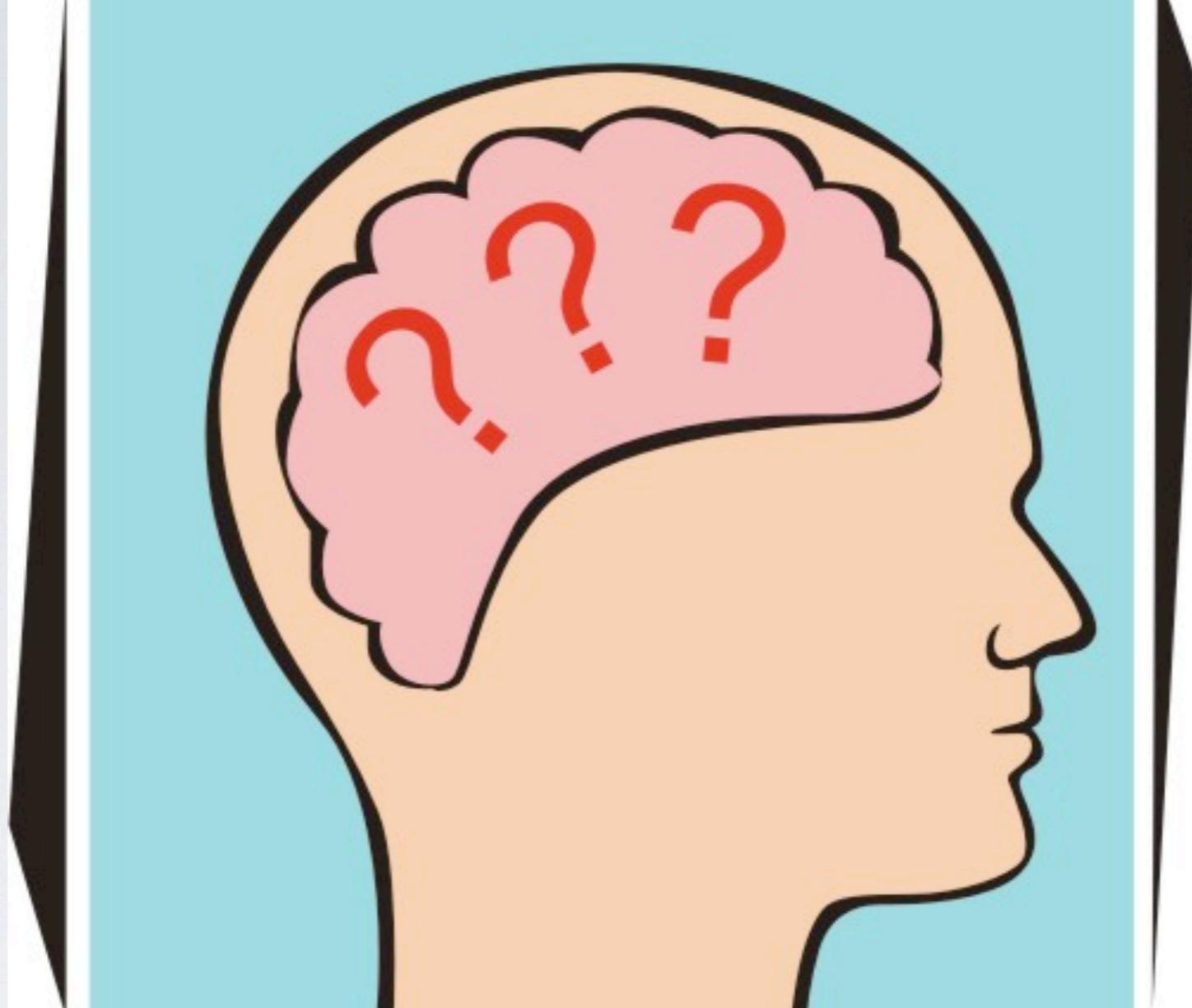
INFLUENCE

researcher, scientist, policy maker and industry



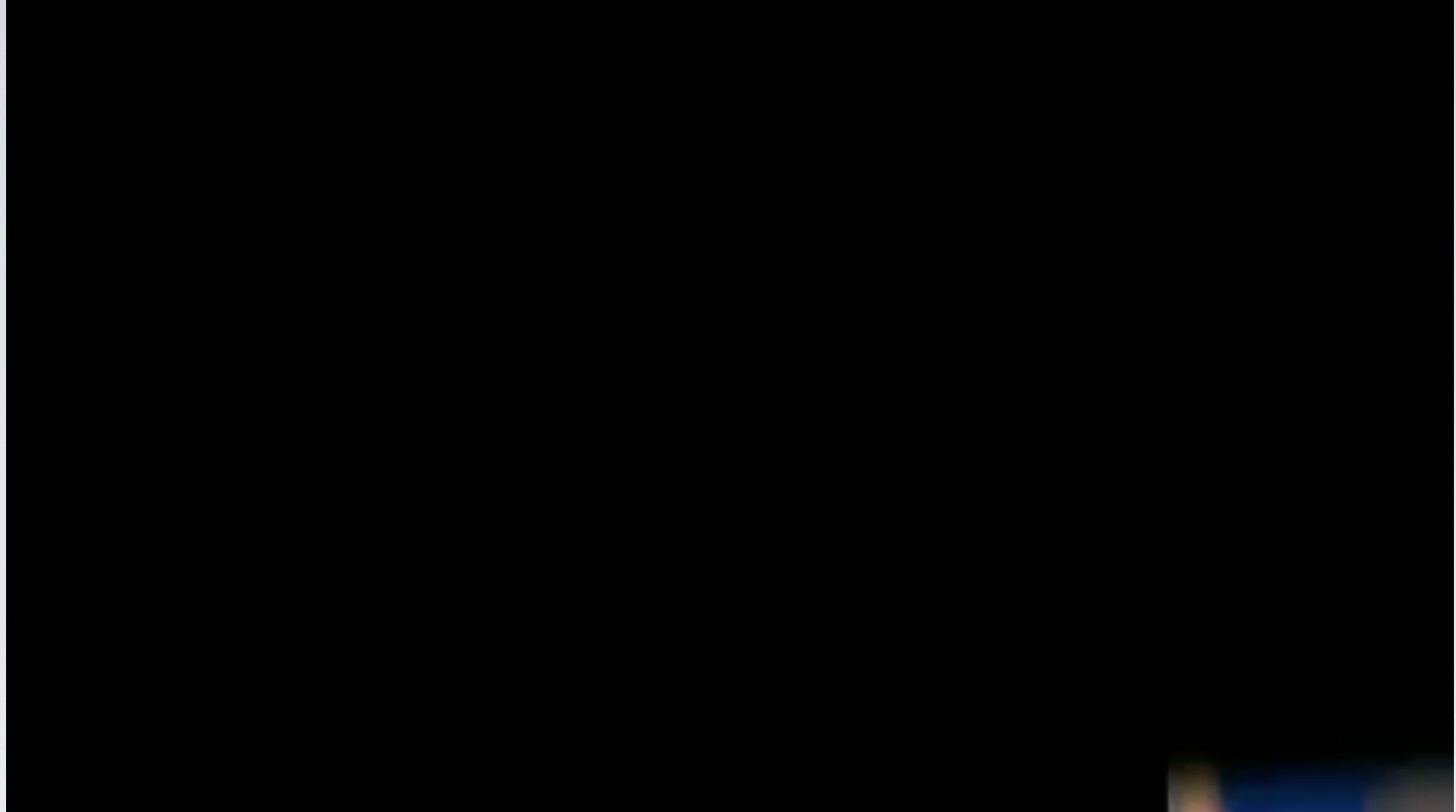
SUPPORT

give tools, frameworks, standards and system



AWARE

computer, it's effective usages and possibilities.



AYAH BDEIR

TED: Building blocks that blink, beep and teach -

MANY THANKS

The Best Way to Predict Future is to Invent it
-Alan Kay