THE MISSION OF THE RESEARCH UNIVERSITY: EDUCATING STUDENTS

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THE MISSION OF THE RESEARCH UNIVERSITY: GENERATING & APPLYING KNOWLEDGE

AGRICULTURAL AGE

1781
Steam Engine

INDUSTRIAL AGE

1810
Founding: Humboldt University of Berlin

1941
Digital Computer

INFORMATION AGE

1989
World Wide Web

2016

CYBER-PHYSICAL AGE

TIME

KNOWLEDGE
1: Flipped Curriculum

2: Transdisciplinary Research

3: Powered by Technology

4: Societal Platform
A PERSONALIZED FLIPPED CURRICULUM

VIRTUAL KNOWLEDGE SCAFFOLD

F2F PROJECT CORE

ECOSYSTEM

SOCIETY
EXAMPLES OF POTENTIAL TRANSDISCIPLINARY LEARNING PATHWAYS

DATA, SYSTEMS AND SOCIETY
MATH+SOCIAL SCIENCES+PROBLEM DOMAIN

EDUCATIONAL GAMES
CS+BCS+EDUCATION

ROBOTIC MATERIALS
MS&E+EECS+MECHE

INTELLIGENCE
CS+MATH+PHYSICS+BIO/BCS+EE+HASS

4D PRINTING
MS&E+CS+MECHE+ARCH

DIGITAL HUMANITIES
HUMANITIES+CS

BIOINFORMATICS
BIO+MATH+CS

REGENERATIVE MEDICINE
BIO+MS&E+MECHE
ACADEMIC FREEDOM 2016... IN THE NEW MILLENNIUM

TO STUDY
TO CREATE
TO DISCOVER
TO INVENT
TO EXPLORE

“Conformity is the jailor of freedom and the enemy of growth.”
— John F. Kennedy, Jr.
SOCIETAL ENGAGEMENT: 2016... IN THE NEW MILLENNIUM

IVORY TOWER TO
SOCIETAL PLATFORM

GLOBAL EDUCATION

COLLECTIVE INTELLIGENCE

“It’s your place in the world; it’s your life. Go on and do all you can with it and make it the life you want to live.”
— Mae Jemison

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DIVERSITY: 2016... IN THE NEW MILLENNIUM

BEDROCK PRINCIPLE
WEAVED THROUGHOUT
PROACTIVE, STRUCTURAL
EXEMPLAR & SOCIETAL CATALYST

“The end is reconciliation; the end of redemption; the end of the creation of a beloved community.”
— Martin Luther King, Jr.
“In the end, it all comes down to people and values. We need to shape a future that works for all of us by putting people first and empowering them. In its most pessimistic, dehumanized form, the Fourth Industrial Revolution may indeed have the potential to "robotize" humanity and thus to deprive us of our heart and soul. But as a complement to the best parts of human nature—creativity, empathy, stewardship—it can also lift humanity into a new collective and moral consciousness based on a shared sense of destiny. It is incumbent on us all to make sure the latter prevails.”

— Klaus Schwab is Founder and Executive Chairman of the World Economic Forum