

A global initiative of International Space University, Stanford, and Next-Gen Alliance (SAP) in capacity building

Dr Victor Taratukhin, Prof Chris Welch, Valentina Anikushina, Ann Rosenberg, Dr Bernd Welz

SAP and International Space University
victor.taratukhin@sap.com



THE GLOBAL GOALS
For Sustainable Development



SAP
next-gen ▶▶

SAP customers represent
87% of Forbes Global
2000 companies.



Our customers produce
more than **78 million**
barrels of oil each day.



Our customers
produce more than
82% of the world's
medical devices.



Our customers produce
the **top 20** global
prescription drugs.

A woman with dark curly hair, wearing a green turtleneck sweater, is looking intently at a small green bottle she is holding in her hands. She is standing in a pharmacy aisle, with shelves of various medications and supplements visible in the background. The shelves are filled with numerous bottles of different sizes and colors, some with labels that are partially legible, such as 'Calcium', 'Vitamin D', and 'Bright'. The lighting is warm and focused on the woman and the bottle she is holding.

**Our customers
distribute more than
76% of the world's
healthcare products.**



Our customers manufacture
more than **95,000** automobiles
per day.

Our customers fly more
than **2.3 billion**
of the world's passengers.





**97% of the discrete manufacturers
in the Forbes Global 2000 are SAP
customers.**

More than **1,060** aerospace and defense companies in 51 countries are innovating with SAP solutions.



The background of the image is a deep blue night sky filled with stars. The Milky Way galaxy is visible as a bright, hazy band of light stretching diagonally across the frame. In the lower portion of the image, the dark silhouettes of hills and a road with white dashed lines leading into the distance are visible.

SAP

for Space Exploration

- ▶▶ Running SAP and its SAP HANA platform, businesses and organizations like the insurance group Munich Re can pursue completely new business scenarios for their customers
- Munich Re leverages geospatial satellite data to more accurately calculate
- ▶▶ costs and risks related to wildfires, earthquakes, storms, floods, and other natural disasters

Business opportunities for spatial data

IoT area where everything gets connected and things require a geo-reference to enable new ways of communication and automation. All are based on open data platforms with massive amounts of spatial data offering simple micro-services such as geofencing up to more complex use cases like autonomous driving



"Our collaboration with the European Space Agency (ESA) helps us to combine the power of SAP's HANA Platform with ESA's accurate, timely, and easily accessible Earth Observation information, in particular Copernicus data. This is digital innovation at its best and it helps to shape the future of the digital economy."

- Dr. Carsten Linz, Business Development Officer and Global Head of SAP's CIO Center for Digital Leadership

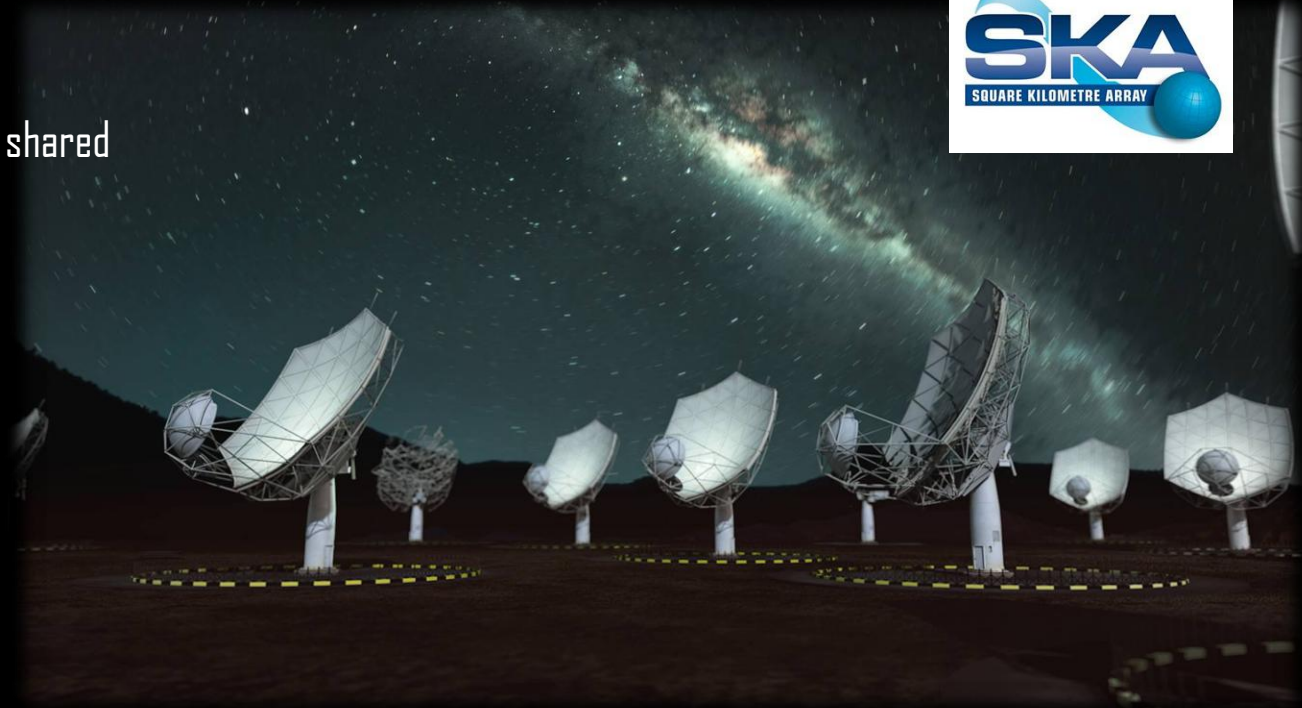
Square Kilometre Array (SKA): Handling data easily

- ▶▶ The SKA is an international effort to build the world's largest radio telescope which project's major site is located in South Africa with a second large operation centre in Australia, and thousands of antennae across the world
- 50,000 times more sensitive than any existing radio instrument and its image resolution quality dwarfs that of the Hubble Space Telescope by 50 times
- ▶▶ "...the SKA project in South Africa will produce two terabytes per second of raw data. That is roughly enough data to fill 340,000 laptops with content a day" - Elke Simon-Keller heads up co-innovation projects for SAP Africa

"These new telescopes create an almost unimaginable amount of data. This is a real challenge and we want to know how far we can go with our technology. Let's see what SAP HANA Vora and SAP HANA can do in this situation."

- Franz Färber, Head of SAP HANA VORA

SAP HANA helps to handle this data, turning it into information that can be shared and distributed easily, and extract knowledge from it



United Launch Alliance (ULA): To give visibility

- ▶▶ The ULA is a world leader in sending rockets into space and carrying payloads for weather, telecommunications, national security, as well as deep space and interplanetary exploration

- ▶▶ SAP Complex Assembly Manufacturing is used to make sure all the buildups are ready for blastoff. It also integrates with ULA's other IT systems, which gives the company visibility across its build and test activities and helps to increase its launch rate

"Both manufacturing and launch operations use the SAP Complex Assembly Manufacturing solution on a day to day basis, to not only build the rockets, but to test them and launch them."

- Fuqua



Proton-PM: Utilization optimizing

- ▶▶ The world's most powerful and reliable space rocket carrier runs SAP
- The three-stage project fulfilled from Nov 2010 till Dec 2013 covering the business processes of Proton-PM, including human resources and financial management, CRM, sales and quality management
- SAP to overcome the constraints of information systems, optimize the whole production cycle, obtain visibility into resource utilization and profitability for every deal, make a detailed plan/fact analysis of cost, identify sources of variations and bottlenecks, and improve the enterprise management system.

"These days, public enterprises of our scale need world-class information technologies. Thus, this SAP solution implementation is not only a strong optimization project to secure financial stability, but also an efficient tool to enhance the company's reliability with the help of the best global business management practices."

- Igor Arbuzov, CEO of Proton-PM

"By choosing SAP, Proton-PM has made a true milestone decision – not only to increase the effectiveness of its own business, but also to raise the competitiveness of the Russian aerospace industry in the global market."

SAP CIS comments



Meet the team:



Senior Vice President, Global Head of SAP
Next-Gen
SAP Leonardo Center New York
Innovation with purpose | [@ROSENBERGANN](#)



Dr Victor Taratukhin
Regional Director
SAP Next-Gen in Silicon Valley and US West
Stanford ME310 Industry Representative
victor.taratukhin@sap.com
+1 650 382 9741



Ann Rosenberg

Senior Vice President, Global Head of
SAP Next-Gen, SAP SE

WiDS Ambassador Movement

“Advancing opportunities for STEM education including digital technologies such as blockchain can help women and girls to design, shape and benefit from the technological transformations and innovations changing our world”



Cranfield
UNIVERSITY



UNIVERSITÄT
HEIDELBERG
ZUKUNFT
SEIT 1386



1. Ulyanovsk, Russia
2. Milton Keynes, UK
3. Cranfield, UK
4. SAP University Alliances, Moscow
5. HSE, Moscow & HSE NN
6. BMSTU, Moscow
7. Muenster, Germany
8. Stanford, US
9. SAP Innovation, Palo Alto, US
10. Heidelberg University, Germany

Биография



Dr. Bernd Welz

Chief Knowledge Officer, SAP SE



Prof. Dr. Chris Welch

International Space University (France)
Astronautics and Space Engineering



Valentina Anikushina

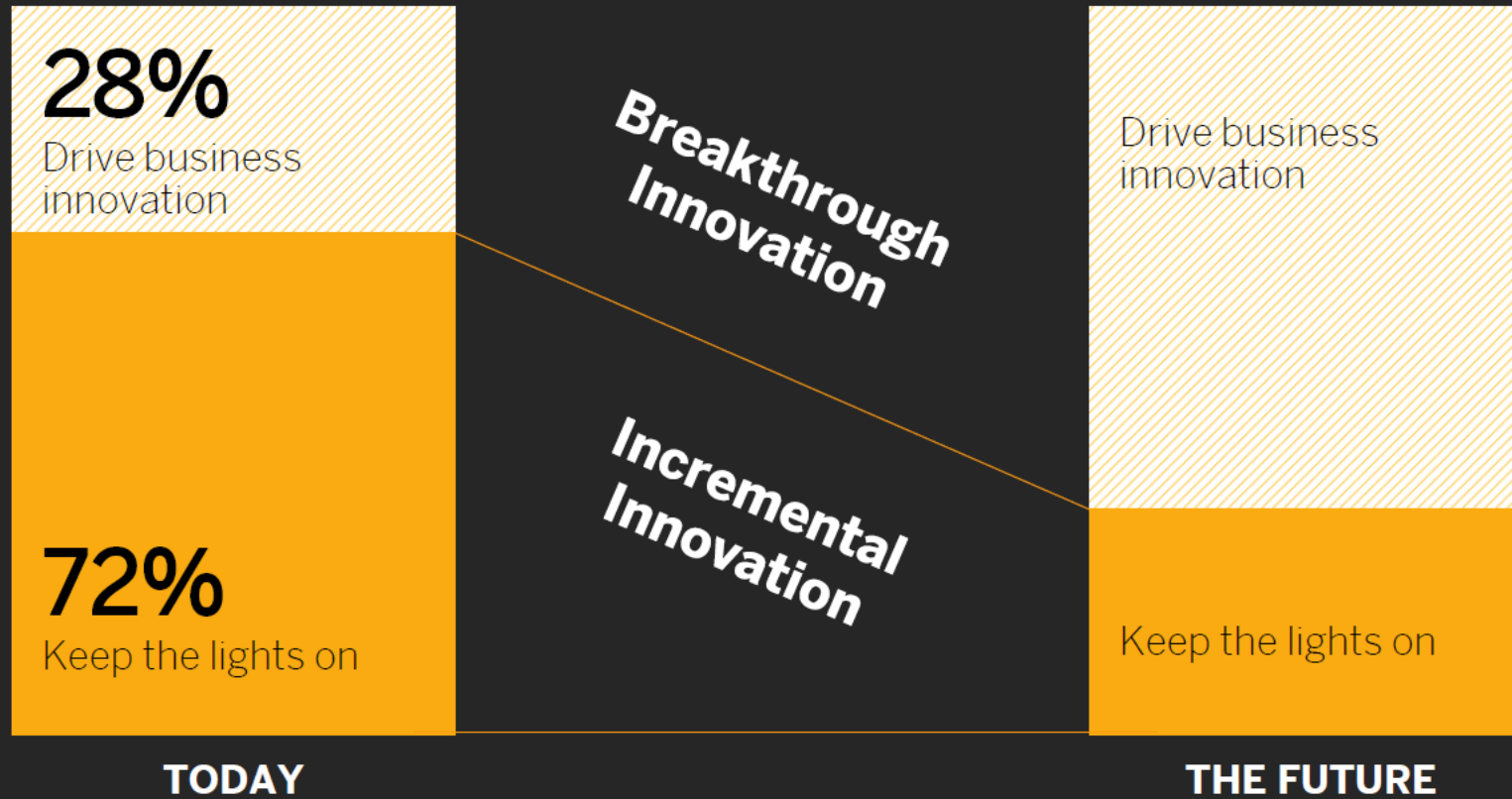
Doctorate at Heidelberg University
(Psycholinguistics)
Working Student, SAP Next-Gen,
SAP SE

A Big Wave is Coming ...



Shift From Information to Innovation Technology

Forrester IT survey, 2013



SAP
next-gen



SAP

next-gen▶▶

Innovation with purpose



THE GLOBAL GOALS
For Sustainable Development

SAP supporting the 17 United Nations Sustainable Development Goals



Making a **Difference**

SAP brings people and technology together to improve people's lives and make the world a better place.

Together, **we can impact...**

We can **save the lives of >6 million children** who today don't live to see their fifth birthday

We can **improve the lives of the 60% of humanity** who will live in cities by 2030

We can **reduce by 1/3 global CO2 emissions**, back to the 1990 level

We can **help the 2.2 billion people** who live on less than \$2 a day earn a decent living

We can **encourage millions of companies** around the world to adopt sustainable practices for clean water, resource and energy consumption

We can **give >2 billion people permanent access to electricity**

"Our vision is to help the world run better and improve people's lives. Our solutions help people, businesses, and institutions achieve economic development, social progress, and environmental impact."—

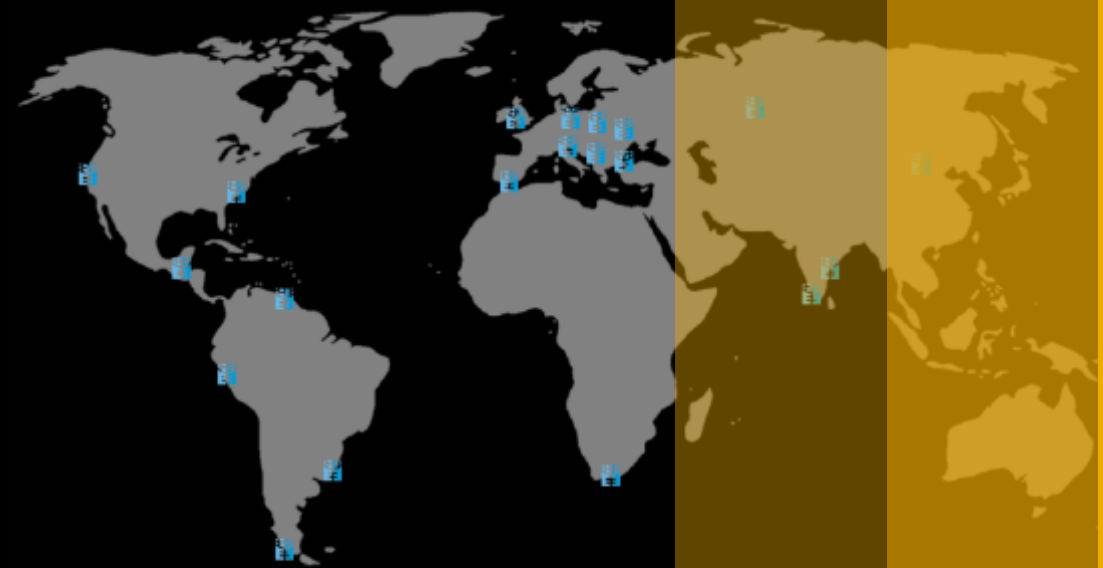
Bill McDermott
CEO, SAP SE





UN Women Global Innovation, Technology and Entrepreneurship Industry Forum 2017 Satellite Events

- SAP proudly presents the UN Women event series featuring livestream of the UN Women Global Innovation Technology & Entrepreneurship Industry Forum 2017!
- Global livestream
- 20 Local Satellite Events
- 100+ Gender Equality Thought Leaders
- #sheinnovates



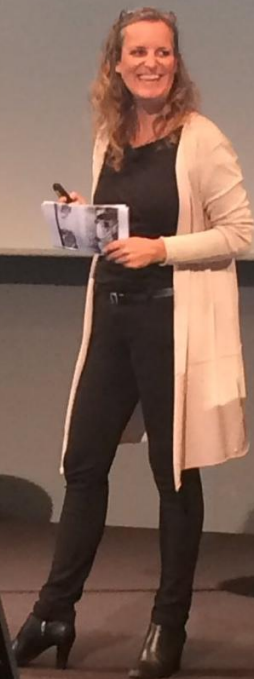
Global Satellite Events

#sheinnovates



**SAP NAMED
ONE OF THE
BEST WORKPLACES
FOR WOMEN**

And here they are ...



Make an **IMPACT** and Support the United Nations Sustainable Development Goals

Bernd Welz, SAP Chief Knowledge Officer, P&I / Daniel Schmid, SAP Chief Sustainability Officer / Alexandra Van der Ploeg, SAP Corporate Social Responsibility

Walldorf, October 10, 2017
SAP INTERNAL

SAP Run Simple



SAP supporting the 17 United Nations Sustainable Development Goals





- Build the next-generation talents for the digital transformation
- Drive innovation from academia and next-generation users to the digital enterprise
- Shape the future of higher education



THE GLOBAL GOALS
For Sustainable Development



“ Be inspired by
academia and
challenge the next
generation to design
your digital future ▶▶



SAP Next-Gen is an innovation community for SAP Leonardo supporting SAP's **350,000+ customers** across **25 industries** in **180 countries**, leveraging **3,200+ educational institutions** in **110+ countries** in the SAP Next-Gen network and 100+ SAP innovation and developing centers and startups in the SAP ecosystem.

The SAP Next-Gen programs is an innovation platform for the SAP ecosystem enabling companies, partners and universities to connect and innovate with purpose to **the UN Global Goals**.

Reimagine the future of industries with exponential technologies.

Build skills for digital futures.

Showcase thought leadership.

A global network to help our



Customers



Partners



Startups



Universities

SAP University Alliances and SAP Next-Gen

Innovation with Purpose

Mission: Build next gen innovators and connect them to the SAP ecosystem to accelerate disruptive innovation



- **SAP University Alliances** enables faculty to bring SAP software and SAP University Alliances curriculum into classrooms and academic research,
- to better prepare the next generation designers, developers, data scientists, makers, entrepreneurs and business leaders for the exponential enterprise.
- to develop critical skills for digital futures among academics, university students and young thinkers, and to build the bridge to executives and professionals.

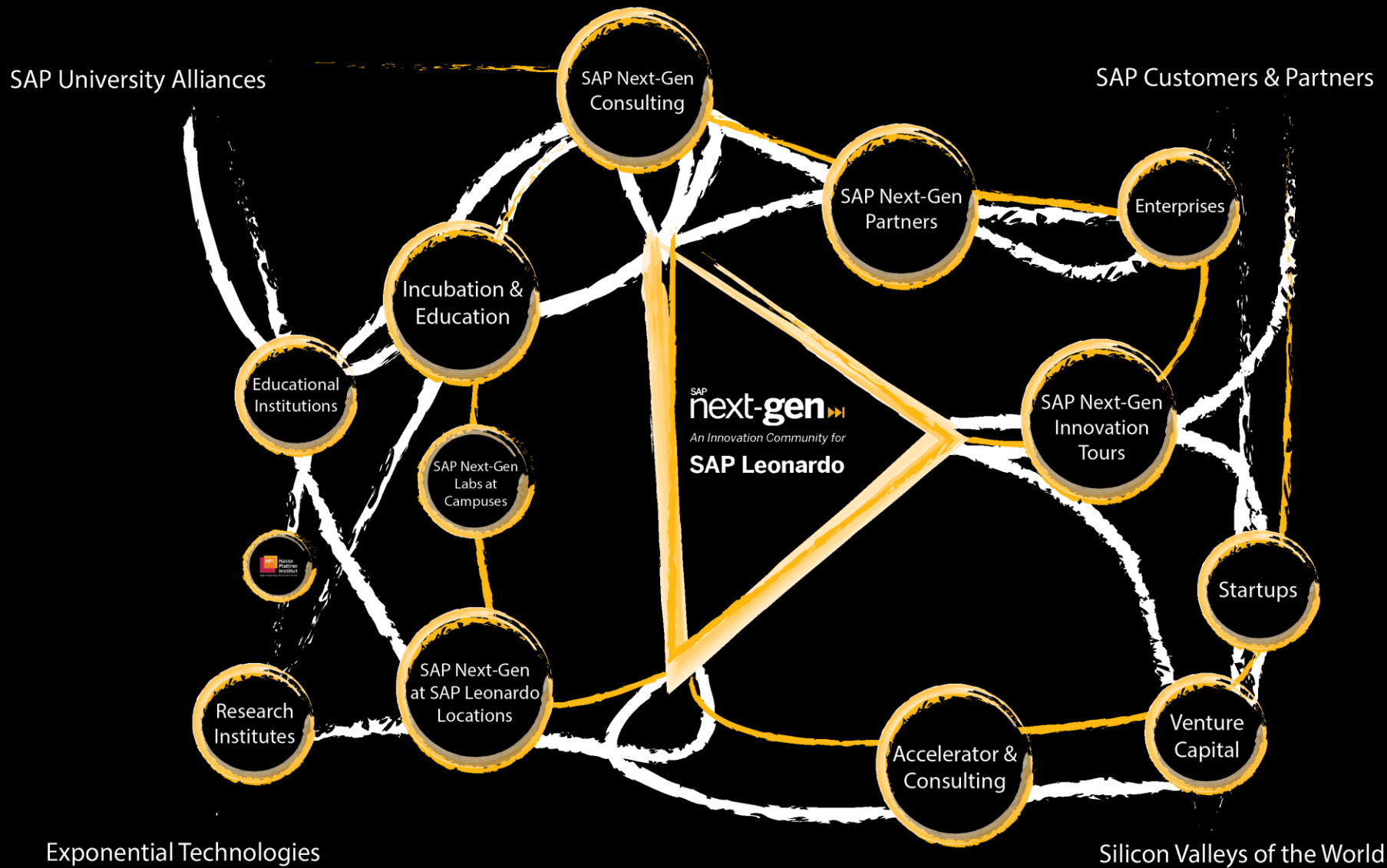


- **SAP Next-Gen** enables SAP customers and partners to **seed in disruptive innovation** and accelerate their exponential enterprise journeys and digital futures through **connecting** with students, startups, academic thought leaders and researchers, accelerators, venture firms, and other partners in the SAP University Alliances innovation network.



All SAP Next-Gen services and activities support SAP's commitment to the 17 UN Global Goals for Sustainable Development.

SAP Next-Gen: Innovation with Purpose



SAP Next-Gen: An Innovation Community for SAP Leonardo

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Campus Labs for SAP Next-Gen

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SAP Next-Gen Consulting Projects

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SAP Next-Gen Innovation Tours
to Silicon Valley, New York and Berlin

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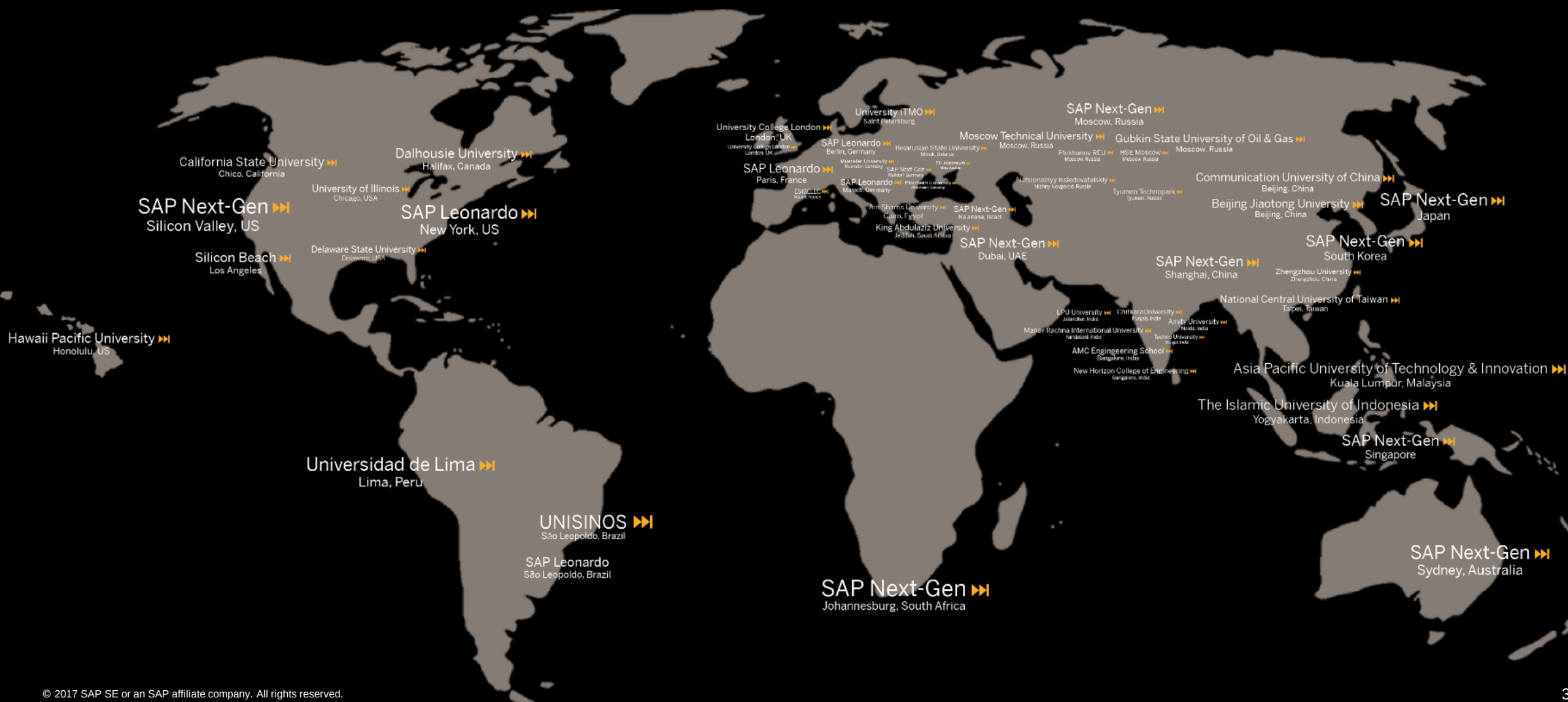
SAP Next-Gen clubs for industries,
technologies, Methodologies and special
focus topics

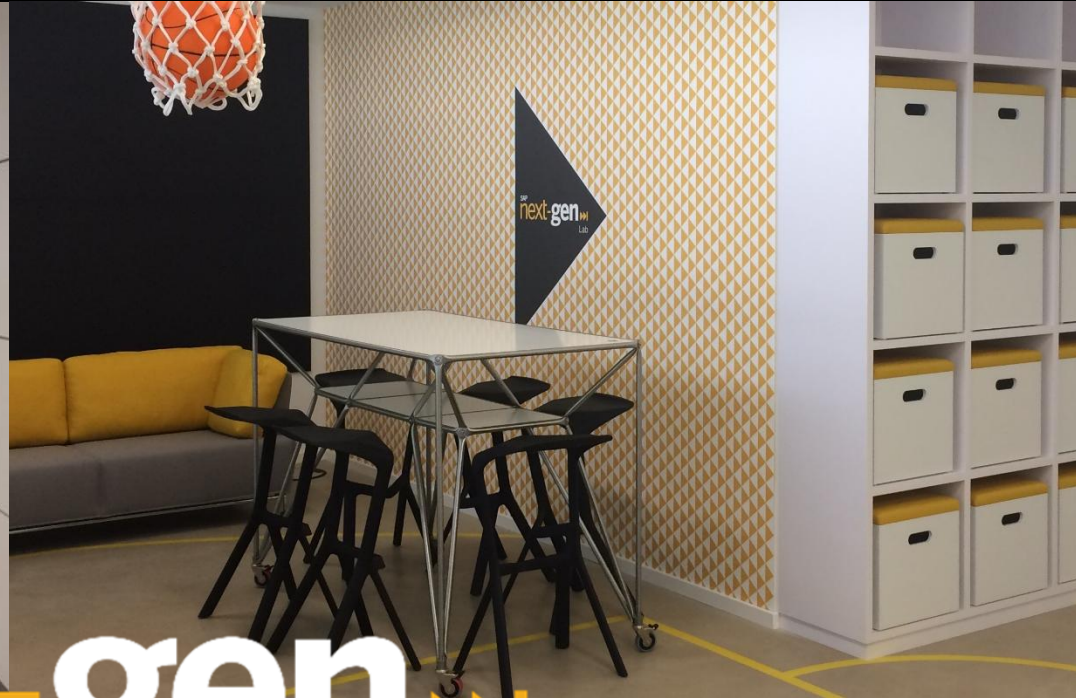
111

Countries

3300

Educational Institutions





SAP
next-gen

Lab



SAP
University
Alliances

Why do we do Next-Gen?

**New / fresh look at industry
challenges**

Identify early talent

**Close cooperation with leading
universities**



Customers



Partners



Students



Universities

**Strengthen relationships with
industry**

**More topics for research
Students more work ready**

Starts building a network with SAP ecosystem

Exposure to new SAP technologies

Experience in solving industry challenges

SAP Next-Gen Campus Labs/ Hubs : APJ & America



AMC Engineering College
Bangalore, India



Asia Pacific University of Technology &
Innovation, Malaysia



Communication University of China



Chitkara University, India



Islamic University of Indonesia, Indonesia



National Central University Taiwan



Amity University, Noida, India



Beijing Jiaotong University, China



Techno India University, Bengal, India

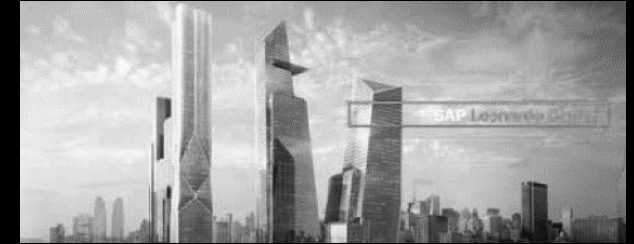
SAP Next-Gen Campus Labs/ Hubs : APJ & America



Manav Rachna International University,
India



NG Lab Ngee Ann Polytechnic



SAP Leonardo Center New York



New Horizon College of Engineering
Bangalore, India



LPU University, Jalandhar, India



University of Illinois at Chicago



Zhengzhou University, China



University of Illinois at Chicago



SAP Leonardo Center Sao Leopoldo

SAP Next-Gen Campus Labs/ Hubs : APJ & America



California State University, Chico, US



Dalhousie University, Canada



Universidad Santo Tomas, Chile



Delaware State University, US



Hawaii Pacific University, US



Universidad del Pacifico, Peru



ITAM de Mexico, Mexico City



Universidad de Lima, Peru



Unisinos, Sao Leopoldo, Brazil

SAP Next-Gen Campus Labs/ Hubs : EMEA/DACH



University College London, UK



University of Münster, Germany



HS Mannheim, Germany



Tyumen Technopark, Russia



NG Lab HSE Moscow, Russia



King Abdulaziz University, Saudi Arabia



University of Portsmouth, UK



TU Vienna, Austria



Moscow Technological University (MIREA), Russia

SAP Next-Gen Campus Labs/ Hubs : EMEA/DACH



SAP Next-Gen Lab at SAP Walldorf



SAP Next Gen at Mafinex



Gubkin Russian State Oil & Gas University,
Russia



FH Joanneum, Austria



ESIGELEC, France



ITMO University, Saint Petersburg, Russia



Toulouse Business School, France



FH Pforzheim, Germany



Ain Shams University, Egypt

SAP Next-Gen Campus Labs/ Hubs : EMEA/DACH



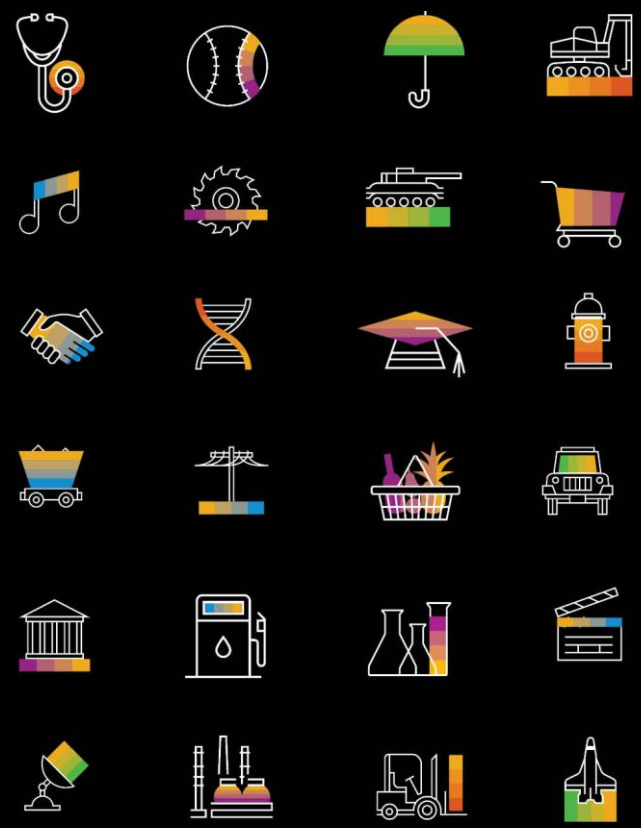
SAP Leonardo Center Paris



Plekhanov Russian Economic University, Russia

SAP Next-Gen clubs for industries, technologies and methodologies

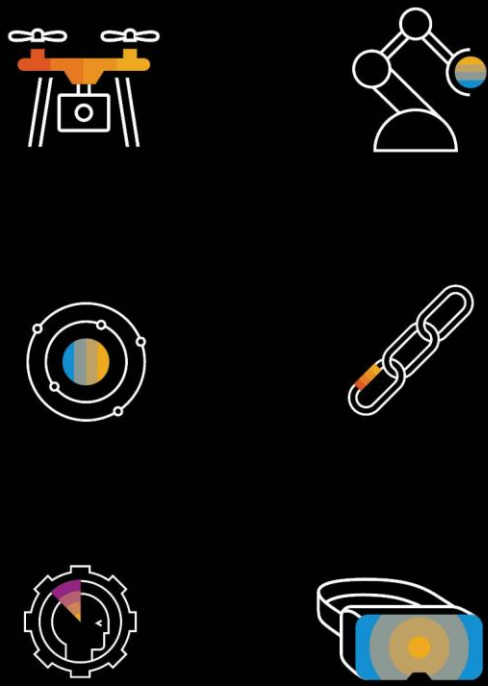
Industries ▶▶



SAP
next-gen ▶▶

SAP Leonardo

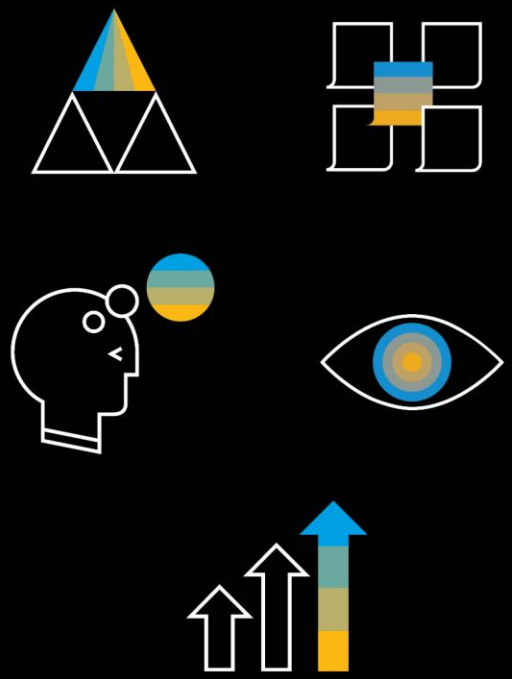
Technologies ▶▶



SAP
next-gen ▶▶

SAP Leonardo

Methodologies ▶▶



SAP
next-gen ▶▶

SAP Leonardo

SAP Next-Gen Lab: How it Works

Next-Gen Projects

SAP
next-gen

Students

- Ideas
- Innovation
- Implementation

Company

- Challenge
- Data sets
- Funding
- Expertise

SAP SE

- Licenses
- Technology
- Software
- Expertise

Next-Gen Labs @ University

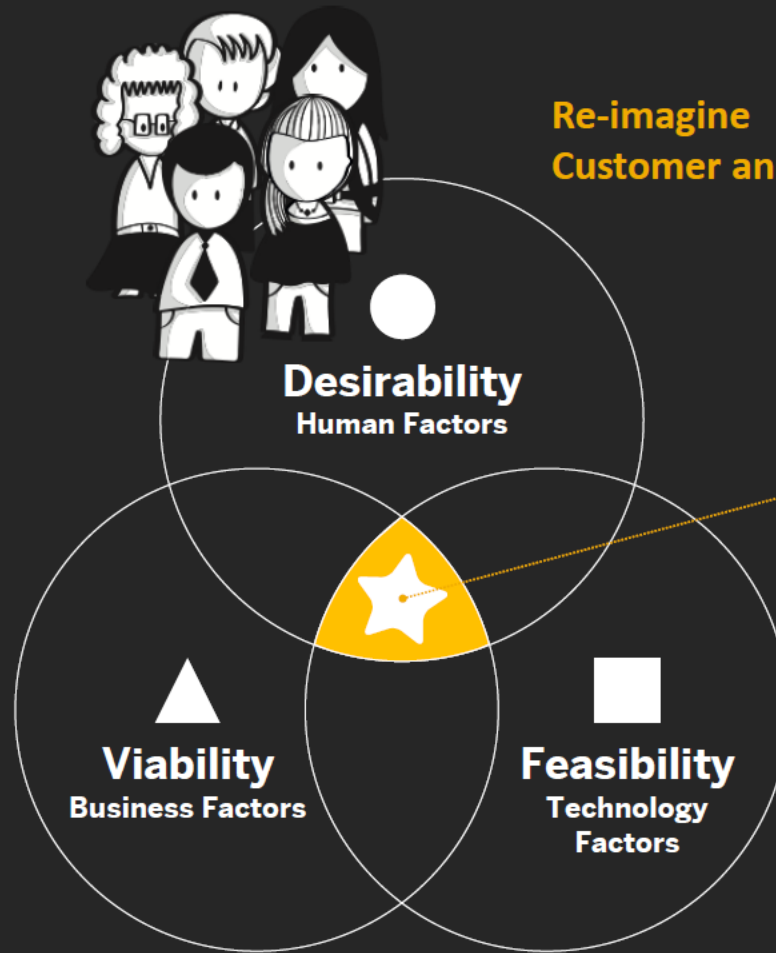


Inspired by Stanford ME310 program, Design thinking and Stanford Design course “Design Innovation” at Stanford

<http://web.stanford.edu/group/me310/current/>

Design-Led Digital Transformation

Focusing on People



Re-imagine
Customer and User Experience

Re-imagining Business Models and
Business Processes

DESIGN INNOVATION

Leveraging breakthrough technology
trends

- Big Data
- Machine Learning
- Internet of Things
- Blockchain
- Analytics
- Data Intelligence

INSTAGRAM INSTA-HIT

On the day Instagram was first available, in October 2010, 25,000 people downloaded the app. In the year since, the number has surpassed 11 million and the app is consistently listed among the top-10 free apps on Apple's iTunes.

Using Instagram, smartphone owners snap pictures with their iPhones and then select among 15 filters that stylize the photos. Suddenly, boring, run-of-the-mill phone pictures look vastly different—better than they should.

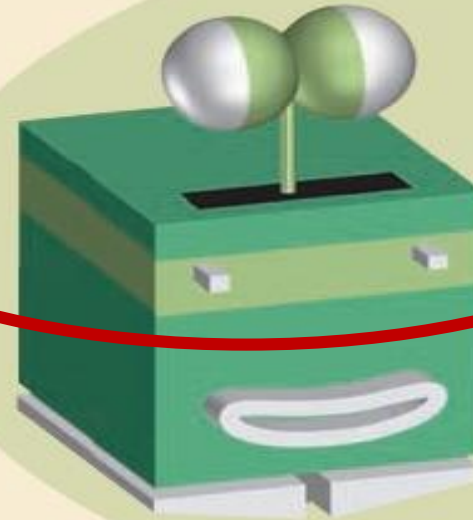


As of November 2011, the application has been downloaded over 11 million times.

Instagram still has fewer than ten employees, but CEO Kevin Systrom and co-founder Mike Krieger are dreaming big. The two met at Stanford Engineering. After graduation, they chose to start their own company rather than work for their classmates. Systrom founded Meebo. A few years later, he founded Krieger for Meebo. A few years later, he founded a check-in app, but were intrigued by a new app that seemed to enjoy swapping pictures. That idea and \$7 million in funding were on its way. **S**

Stanford Engineering alumni have generated

2.2
million new jobs
and
\$1.6
billion annual
revenues worldwide.



10,900
companies created by
Stanford Engineering
alumni over the decades

SOCIAL CONNECTIVITY

Ref:

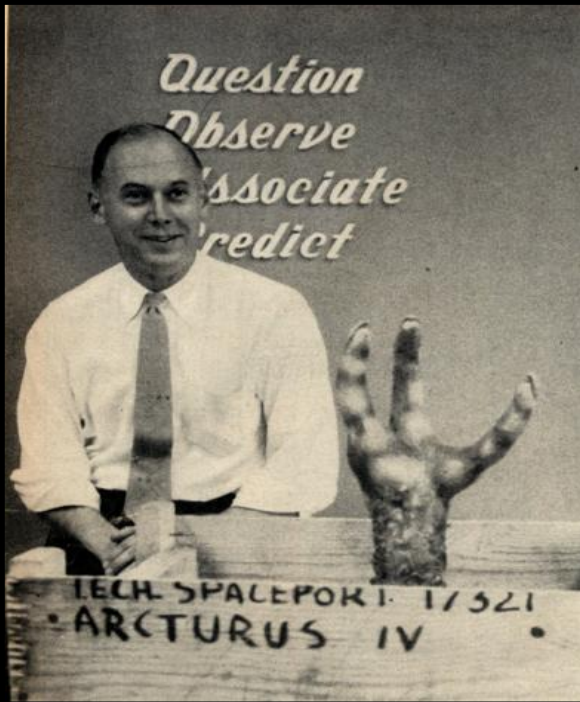
Ted Douglas Zoller, (2010) "The Dealmaker Milieu: The Anatomy of Social Capital in Entrepreneurial Economies, Unpublished Doctoral Dissertation, University of North Carolina at Chapel Hill.

ORACLE
 BENCHMARK NEA E*TRADE
 KLEINER PERKINS tyco facebook
 LIGHTSPEED VENTURE PARTNERS Menlo Park TIBCO ACCEL
 SEQUOIA CAPITAL greylockpartners. SurveyMonkey
 ANDREESSEN HOROWITZ khosla ventures amazon.com cloudera GILEAD NORTHROP GRUMMAN VISHAY MARVELL KLA Tencor Milpitas LINEAR
 XEROX SAP Google Palo Alto Palantir CORAL LOCKHEED MARTIN DELL BROADCOM FireEye nanometrics
 STANFORD UNIVERSITY nest eys Google EMC YAHOO! MOTOROLA DOLBY intel citrix NEC Gigamon CISCO
 TESLA vmware Microsoft intuit Ruckus JUNIPER Raytheon Google NetApp EMC Akamai Omnicision APPLIED MATERIALS
 MERCK hp VARIAN box AUDIENCE amazon.com RAMBUS ARUBA ERICSSON AVAYA HITACHI Finisar
 Aol. Google ventures TELEDYNE SAMSUNG ST. JUDE MEDICAL riverbed COHERENT Abbott FLETRONICS Polycom
 PURESTORAGE Mountain View Mozilla Mercedes-Benz Microsoft ACCURAY Santa Clara ST JDS Uniphase
 Omnicell MedImmune MobileIron Walmart.com TELENOR maxim BROCADE webex QUALCOMM intel capital
 speck SIEMENS NUANCE Apple Trimble SANMINA nanosolar SUPERMICRO
 Combinator webex hansen SYNOPSYS LinkedIn AMD NVIDIA McAfee CISCO SAMSUNG LSI
 500startups Symantec twitter APPLIED MATERIALS paloalto violin BROADCOM
 BlueCoat Cepheid TEXAS INSTRUMENTS Sunnyvale Fujitsu SPANSION AFFYMETRIX MiaSolé Agilent
 PLUGANDPLAY Ariba NOKIA FORTINET InvenSense San Jose EQUINIX NP
 BROADCOM ELEKTA infinera National Instruments NETLOGIC SONY Microsemi zazzle ADERA
 EQUINIX INTUITIVE extreme FOUNDRY NETWORKS Atmel ebay Adobe IBM
 Medtronic NOVELLUS BAE SYSTEMS Canon PayPal bmc software
 Cupertino Apple Aptina Infoblox NUTANIX ECHELON Western Digital
 Seagate TREND MICRO harmonic cadence Boston Scientific ORACLE NETGEAR

60 years in the making

Creative
Design

John Arnold and GSB



Product Design Program with Fine Arts Department

Robotic Systems Design with Computer Science and Aero

Team-Based Systems Design (310) with Industry Partners

Smart Product Design (218) with EE and CS

Center for Design Research (CDR) with Industry Partners

Manufacturing Systems Design with GSB and MS&E

Micro Electro Mechanical Systems Design (MEMS) with EE

Human Computer Interaction Design with CS

Learning Design & Technology with Education

Lab with Wallenbergs of Sweden

ME310-global & SUGAR across the world

BioDesign with

Foresight Engineering with Industry Partners

Hasso Plattner Institute of Design with HPI Potsdam

Venture Design in India, Nigeria

1960

1970

1980

1990

2000

2014

Shared beliefs across the network

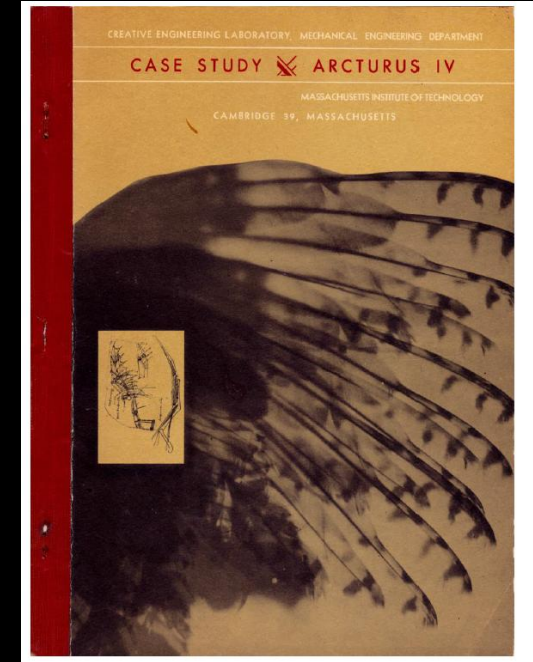
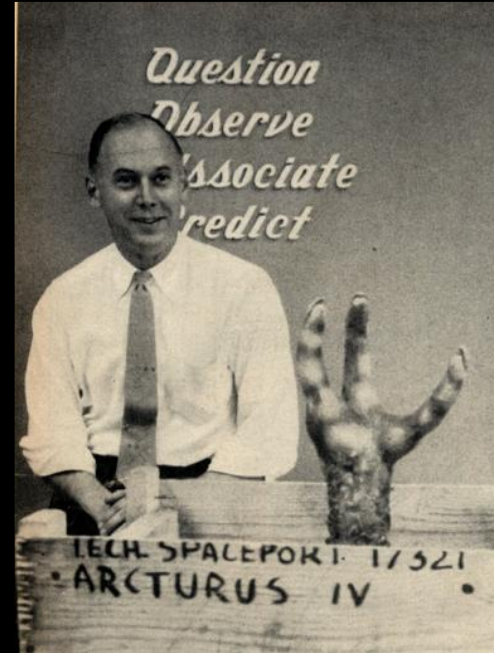
Grounded in industrial practice and problems

Coaching ranks alongside teaching

Build to think

Graduate tomorrow's technical leaders

Design the future



Origin of the Stanford Design Way

Professor John Arnold (1913 – 1963)

Origin of the Stanford Design Way

massachusetts
intergalactic
traders, inc.

78 massachusetts avenue - cambridge, massachusetts - terran

3 May 2951

OFFICE OF THE
BOARD CHAIRMAN

K Wad Lee, Director General
T. E. C. H.
Hexagon Bldg., 187 Level
Washington 99, Terran

Dear K W:

I noticed on last nite's Newscope the announcement of the discovery of intelligent life on Arcturus IV. As you know, our company has been actively engaged for some time now in galactic trading and are well equipped for the design, manufacture and distribution of machines and products for human and sub-human use. Our recent expansion program qualifies us to handle new virgin territory and I would appreciate it very much if you could send us a copy of your file on the α Bootis system and, as in the past, keep us informed as to changes and additions to this file.

Cordially,

R. Z. Hollenhead

R. Z. Hollenhead
Chairman of the Board

INTERGALACTIC CODE NO. 76
ADDRESS MIT:

CONFIDENTIAL

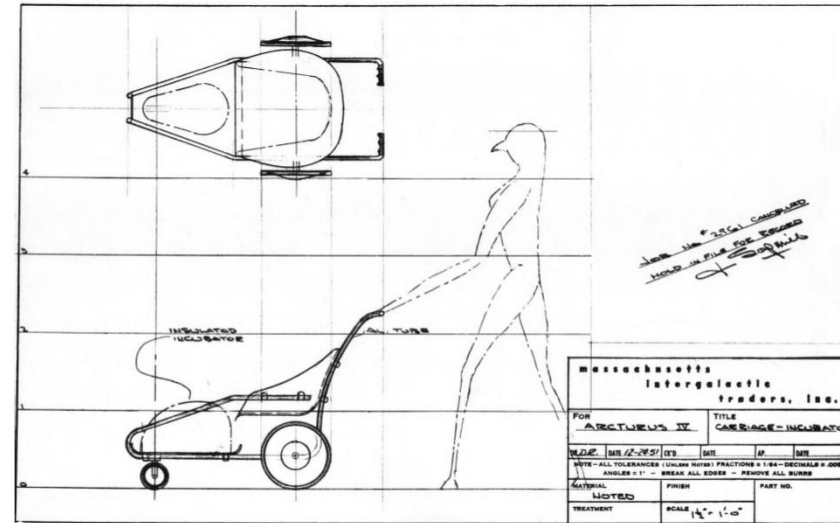
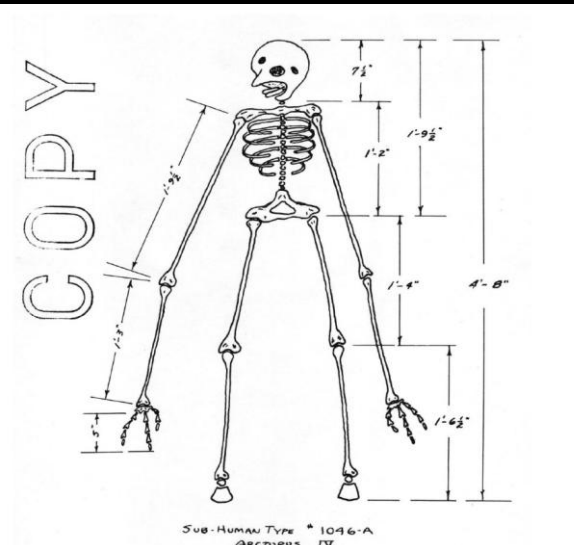
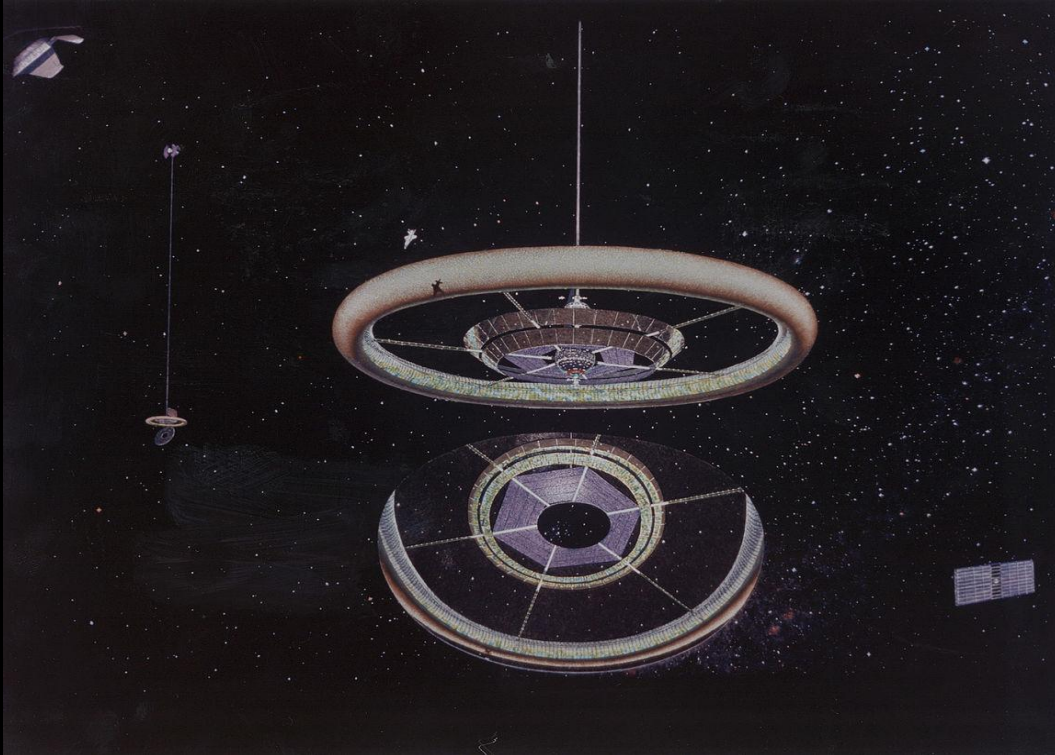


FIG. 6: CARRIAGE - INCUBATOR

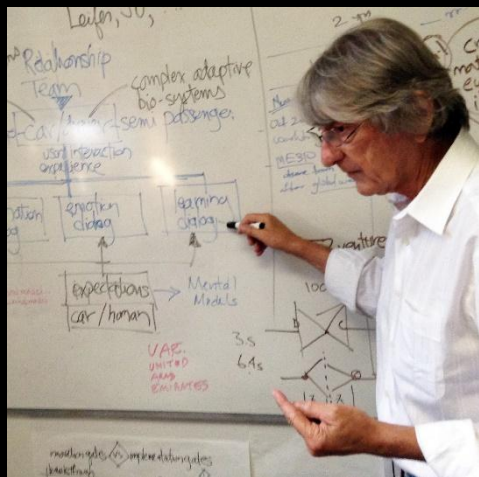


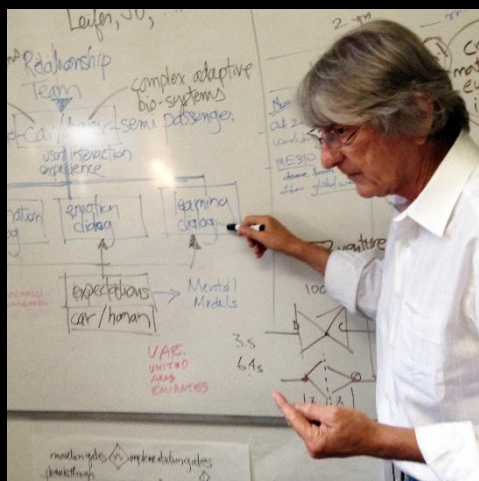
Origin of the Stanford Design Way. Stanford Torus





ENGINEERING







INTERACTION
DESIGN
RESEARCH

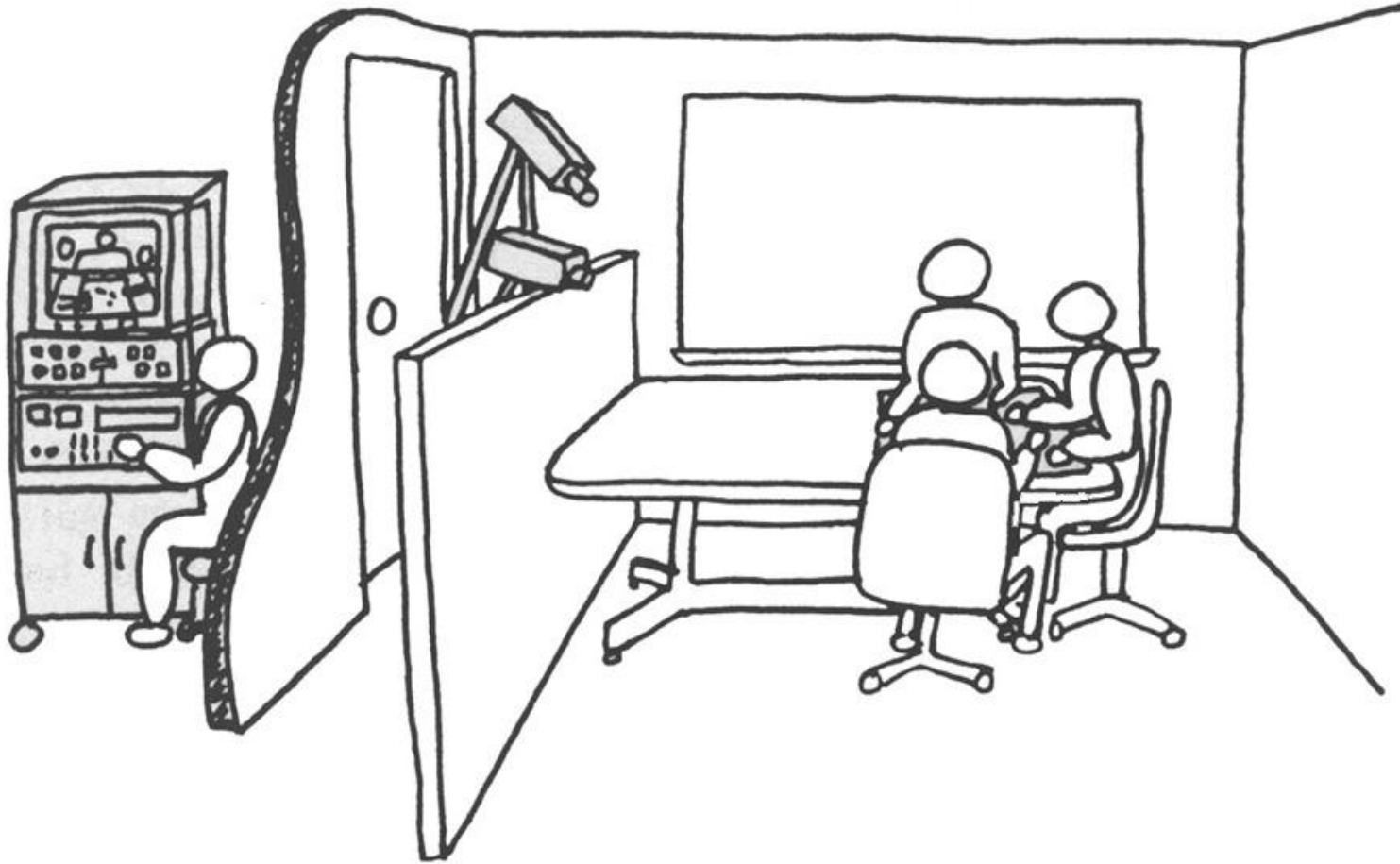
INNOVATION
ECOSYSTEM
DESIGN

DESIGN
TEAM
BEHAVIOR

HEALTHCARE
DESIGN
RESEARCH

RESILIENCE
DESIGN
RESEARCH

BUSINESS
MODEL
INNOVATION



DESIGN TEAM BEHAVIOR

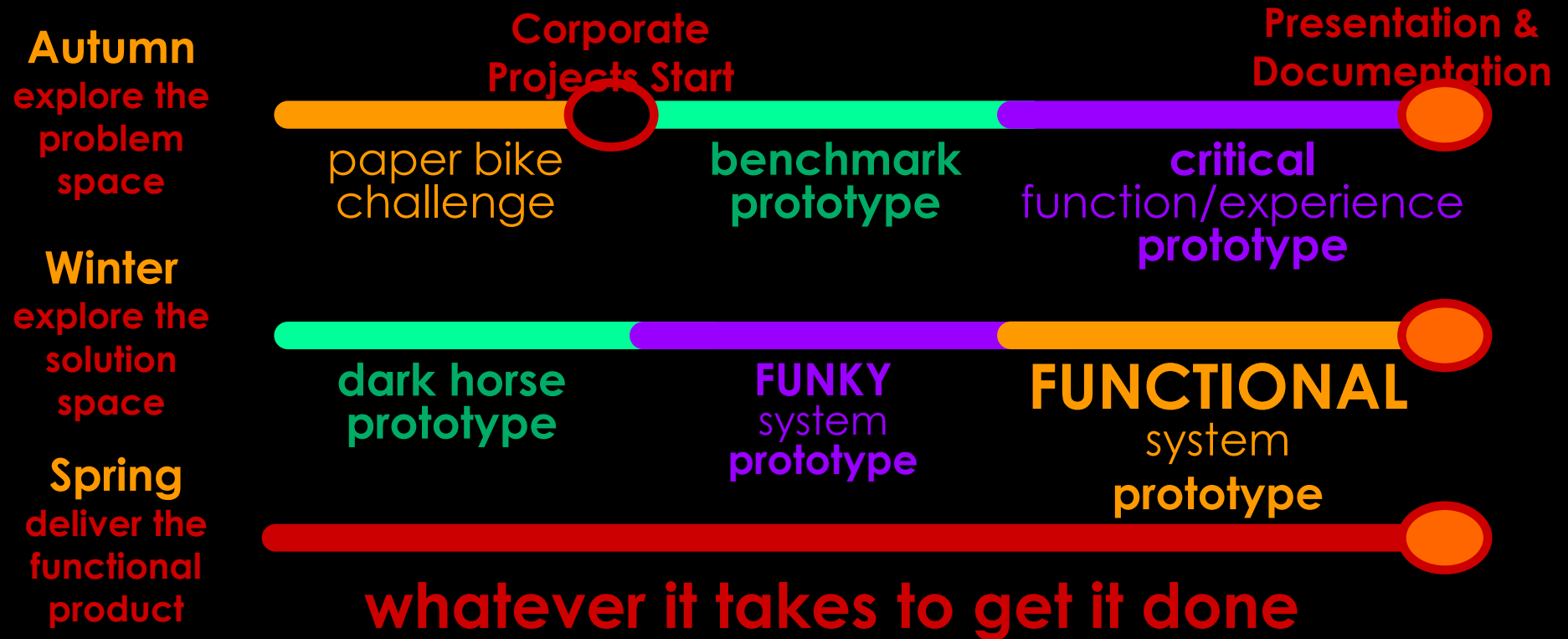
RESEARCH

Design Team Behavior

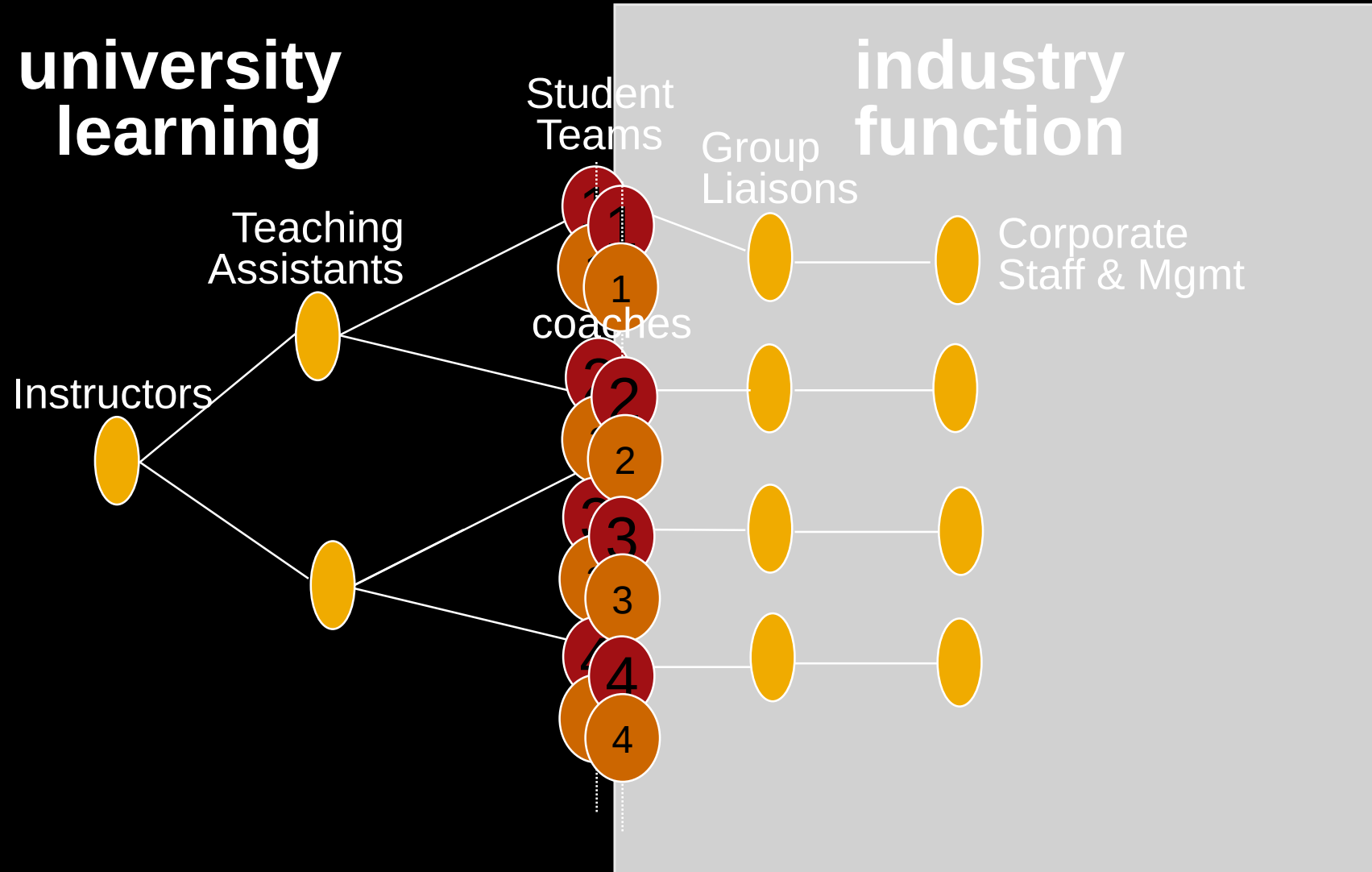
Professor Leifer: Advisor to 40+ awarded PhDs, over 30 years

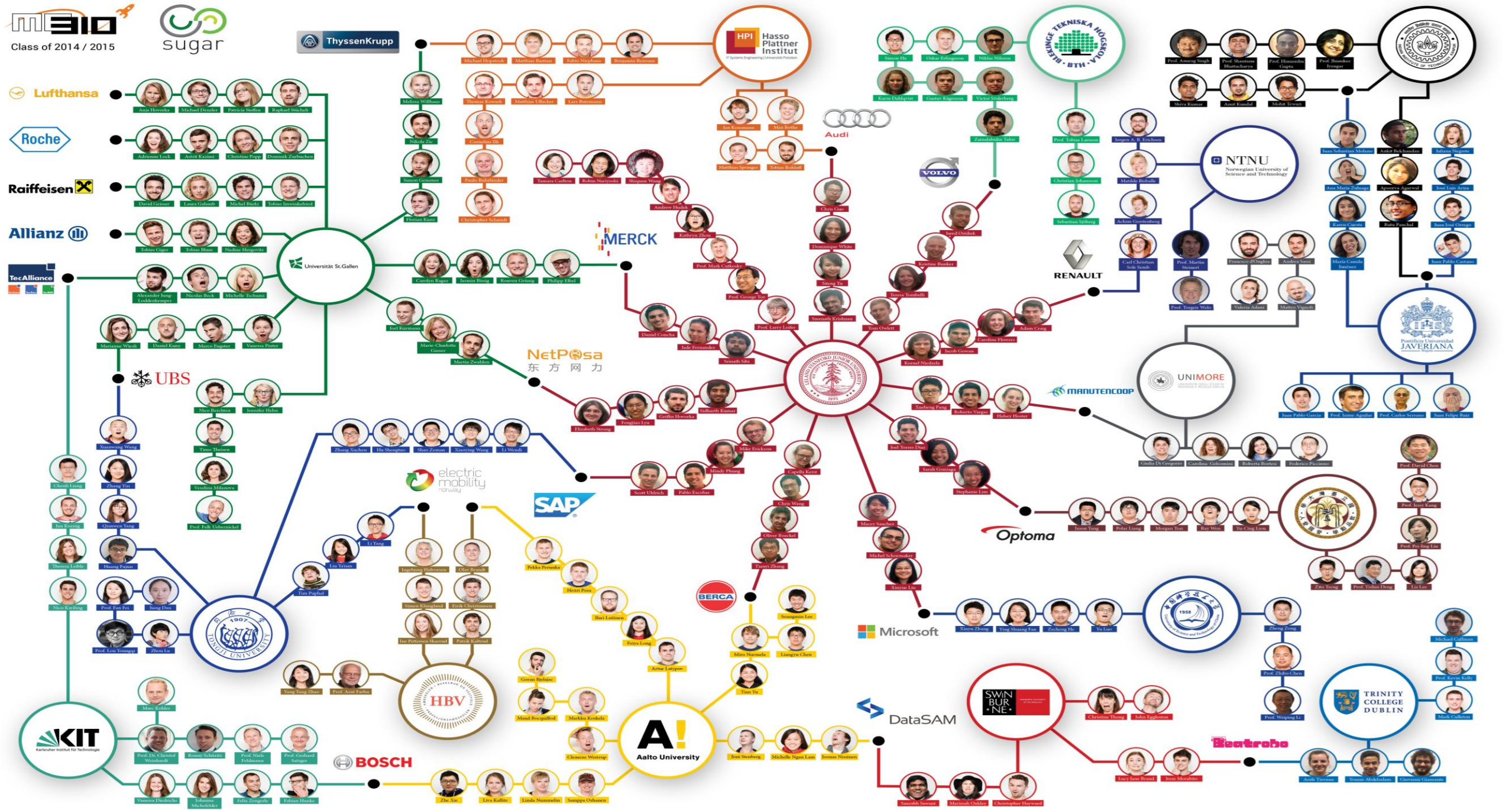


re-inventing the future every 30 weeks



310-global teamwork





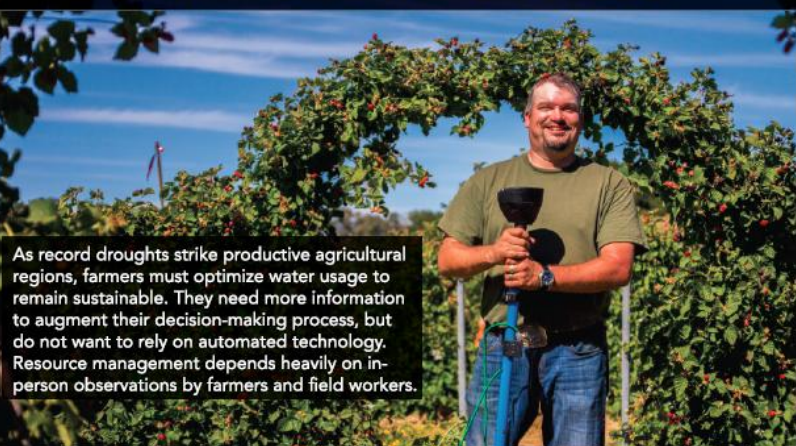




A patient-centric indoor tracking solution for the future of healthcare

SCOUT

DATA INFORMS. FARMERS DECIDE.



As record droughts strike productive agricultural regions, farmers must optimize water usage to remain sustainable. They need more information to augment their decision-making process, but do not want to rely on automated technology. Resource management depends heavily on in-person observations by farmers and field workers.

SCOUT is a sensor-enabled walking stick that collects soil moisture and transpiration data for farmers to access on a mobile app.

While current soil moisture management systems use stationary point sensors located in each plot, SCOUT is a tool that multiple farm workers can each carry to take measurements anywhere in the field. SCOUT leverages the user's expertise about the field rather than seeking to replace it. By directing farmers to critical problem areas, SCOUT enables them to spend their time, water, and resources where they matter most.



User interface

Knobs on Medi Home allow the user to input their mealtimes and sleep time, allowing Medi Home to create a pill schedule specific to each user.



Medi Go

Medi Go will inform a user which pill packet to bring on-the-go and will vibrate to remind the user to take their pills at the right time.



URBAN MINING

The construction and demolition (C&D) industry in the US generates 350 million tons of waste every year. However, this material has the potential to be reused or recycled. In the future, mining new material will become more costly, and with new environmental sustainability regulations, it will become imperative to reuse material onsite. This will eliminate the need to quarry new material and reduce carbon emissions from trucking. Volvo Construction Equipment values environmental sustainability and aims to be at the forefront of urban mining.

1



Collapsible design enables for transport of 100 units.

2



The robust RotoSlide Hinges enable fast onsite setup with two workers.

3



The NIX can be filled and moved with equipment already on the jobsite.

4



The NestRight base allows for safe stacking of up to 10 NIXs for months of storage.

5



The Flex-fold bottom provides controllable material release.

THE NIX

Currently there is no way to effectively store large volumes of aggregate material on a jobsite. The NIX decreases material footprint area enabling onsite reuse. This reduces trucking, which decreases carbon emissions and mitigates traffic disruption. Using the NIX to make C&D projects less disruptive, a contractor can reduce the risk of community push back and litigation. The NIX system leads to environmental, social, and monetary benefits.

MODULAR DESIGN



The modular design of the NIX allows it to be assembled into a hexagon or square. The hexagon holds 4 cu yds of material and costs \$650. The square holds 1.6 cu yds and costs \$450.

SYSTEM OVERVIEW



The NIX can be used in conjunction with onsite sorters, crushers, and batch plants creating a circular economy on the jobsite.

PRESENCE

SEE. FEEL. TRUST YOUR AUTONOMOUS CAR



sphere

How should we design a digital marketplace for MRO services and products to achieve global growth for the Lufthansa Technik Group?



AOG stands for Aircraft On Ground and indicates that a problem is serious enough to prevent an aircraft from flying. Generally, there is a rush to put the aircraft back into service.

sphere acts as a digital marketplace for airlines and repair businesses, enabling them to work together to solve AOG cases faster than ever before.



Jared Ostleik
Kristine Bunker
Teresa Tombelli
Tom Owlett



Gustav Kägeson
Karin Dahlqvist
Niklas Nilsson
Zainalabidin Tahir

Oskar Erlingsson
Simon Ha
Victor Söderberg



Volvo Liaisons:
Jenny Elfsberg
Martin Frank
Coach: Michael Balsamo



Lufthansa Technik



Universität St.Gallen

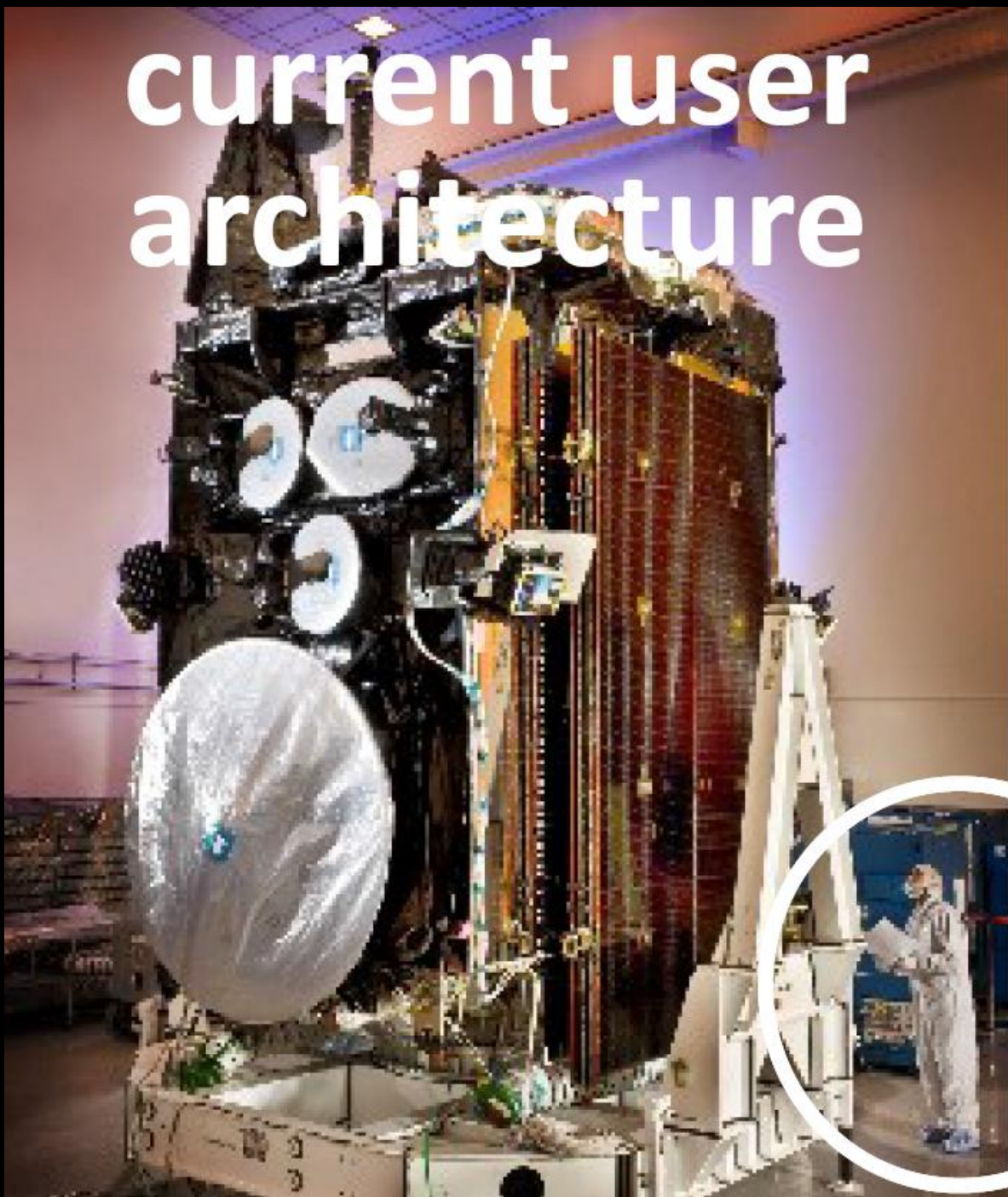


extreme case study

need-find, conceive, build-test

**re-invent the physical
architecture of
communication satellites**
for Lockheed Martin

current user architecture

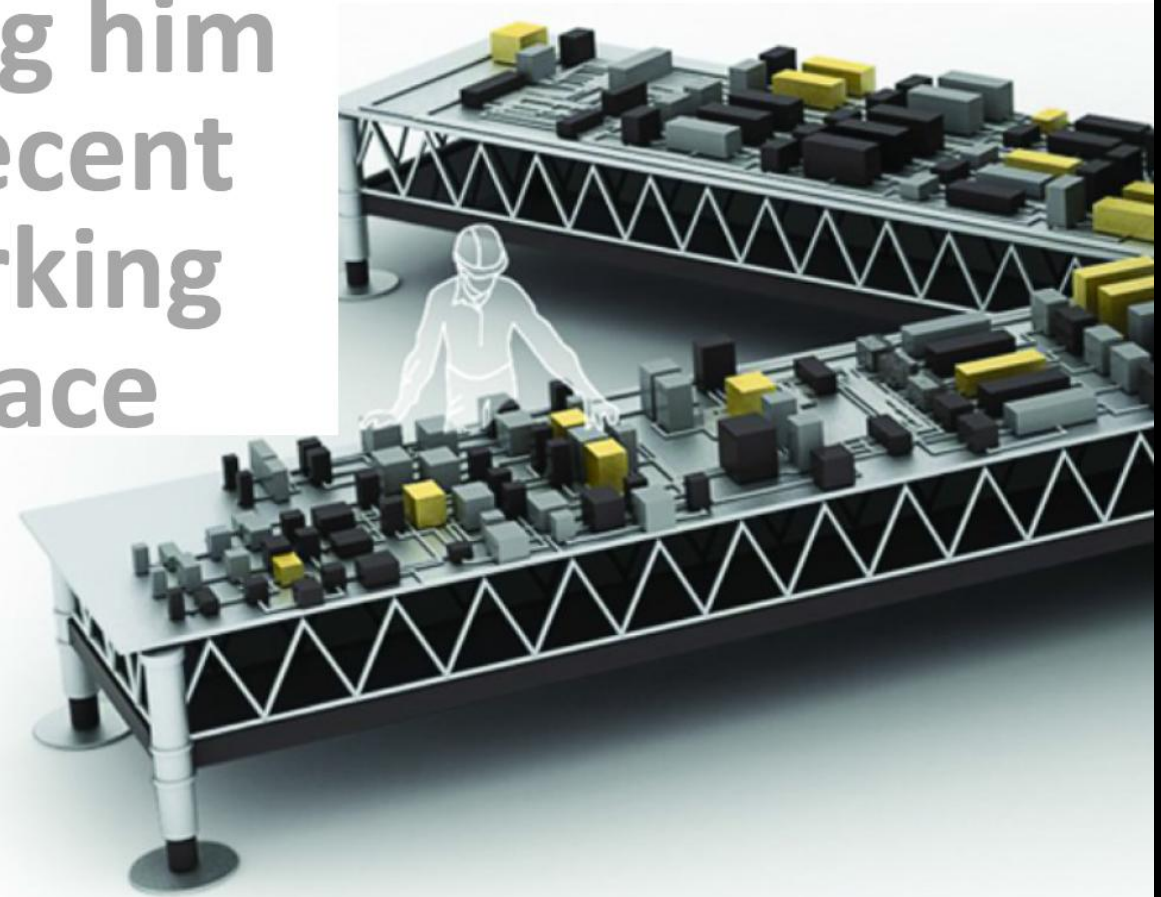


meet
kevin

keep the user in perspective



giving him a decent working space



A related "user-centric" architecture was scheduled for deployment in 2015 with estimated savings

US \$ 20,000,000 per satellite
for 20 satellites per year ->
nice US \$ 400,000,000 per year

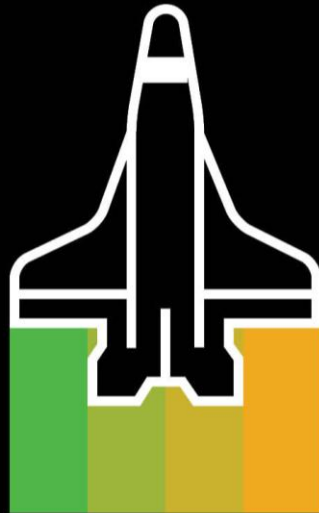
SAP
next-gen▶▶

for Space Exploration





Aerospace ▶▶



Join the
Club for Aerospace ▶▶

An Innovation Community for SAP Leonardo



NASA Space Apps Challenge 2016



NASA in collaboration with **SAP** to spur innovation around the world and encourage young people to solve the important challenges facing our world ▶▶

NASA Space Apps Challenge 2017



NASA Space Apps Challenge 2017

NASA incubator innovation program ▶▶

- over 48 hours in cities around the world
- 25000 + participants worldwide
- 24.000 community members joining the event online
- 40 million people using the #SpaceApps
- SAP Palo Alto and SAP New York City

USA WEST COAST MAIN STAGE - SILICON VALLEY

PALO ALTO, 28-30 APRIL 2017

Organizers



NEW MAN'S BUSINESS
ACCELERATOR



Hosts



SAP
next-gen▶▶
Consulting



NASA
SPACE APPS
CHALLENGE

InnoJam&Bootcamp (Divnomorskoye) 2016



Challenge topics:

- Space Exploration
- Banking

Technological Setup:

- HCP
- UX/UI -> SAP UI5
- ECLIPSE
- IoT
- ML/AI + HANA
- Raspberry/ Python/JAVA



InnoJam&Bootcamp (Divnomorskoye) 2017



Challenge topics:

- Space Exploration
- Rescue and emergency services
- Scope: worldwide

Background:

Develop an app which will facilitate the routine of the rescue teams and optimize activities of the people occurred in a life-threatening natural disaster. **The app must include space technology and big data which are used by NASA, ESA and Roscosmos.**





International Space University

International Space University

What is ISU?

- a leading private, non-profit institution of higher education
- designed for students seeking to work in space-related fields
- serves to peaceful, purposeful, and sustainable outer space development.

ISU's Mission

- Develop the future leaders of the space community
- Nurture the exchange of knowledge and ideas on the challenging issues related to space in neutral forum
- Impart the critical skills essential to future space inhabitants

ISU credo

“ISU is an institution which recognizes the importance of interdisciplinary studies for the successful exploration and development of space. It is dedicated to international affiliations, collaboration and open scholarly pursuits related to outer space exploration and development. ISU is a place where students and faculty from all backgrounds are welcomed; where diversity of culture, philosophy, lifestyle, training and opinion are honored and nurtured.”



ISU partnership with Next-Gen ►►

May, 2017

ISU became is member of SAP Next-Gen



ISU partnership with Next-Gen ▶▶



Prototype Gallery



Stanford ME310 Design Loft

ISU partnership with Next-Gen ▶▶

Activities 2017-2018:

- ▶▶ open a physical open space for creating innovations (SAP Next-Gen Lab) in partnership with National Space Agencies
- ▶▶ increasing the educational quality on space science and enriching university routine with practice-oriented learning and up-to-day teachable methods as well as authentic materials through industry support
- ▶▶ project seminars, Stanford Alliance (ME310)
- ▶▶ promoting space education in developing countries
- ▶▶ human capacity building in space science



ISU partnership with Next-Gen ▶▶

Planned activities:

- Assigning mutual activities between ISU and Next-Gen to the Interconnected Next-Gen Labs concept

The Interconnected Next-Gen Labs aim to give support to execute innovative and outstanding ideas through direct incorporating academic network. Being part of the Interconnected Next-Gen Labs, universities are enabled to encourage their students straightly work with students of other universities within the network. Additionally, the membership helps by providing internships for students which enhance their intercultural soft skills besides polishing up the professional ones.



ISU partnership with Next-Gen ▶▶

Interconnected Next-Gen Labs



German-Jordanian University



Vienna University of Technology



Thank you



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