



SINGULARITY UNIVERSITY

Preparing Humanity For Accelerating Technological Change



Graduate Studies Program

June 19 – August 28, 2010

Autodesk®



ePlanet Ventures

Google™



Campus



SINGULARITY UNIVERSITY
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- Singularity University is a new type of interdisciplinary university based in the heart of Silicon Valley.
- We attract top graduate and postgraduate students from all over the world for 10 weeks each summer



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Our mission is to assemble, educate and inspire a cadre of leaders who strive to understand and facilitate the development of exponentially advancing technologies to address humanity's grand challenges.

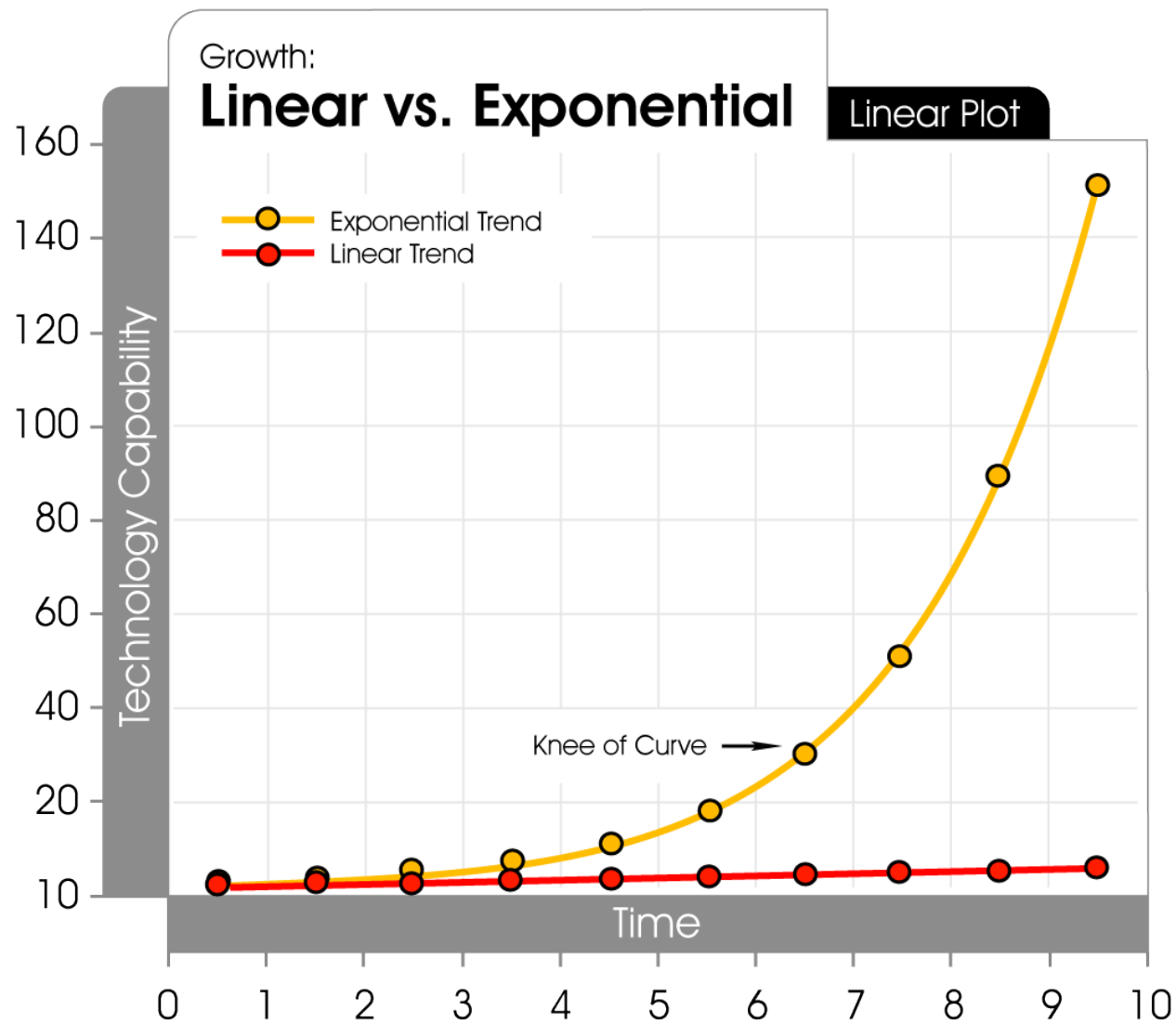
Understanding Growth

Linear Vs. Exponential



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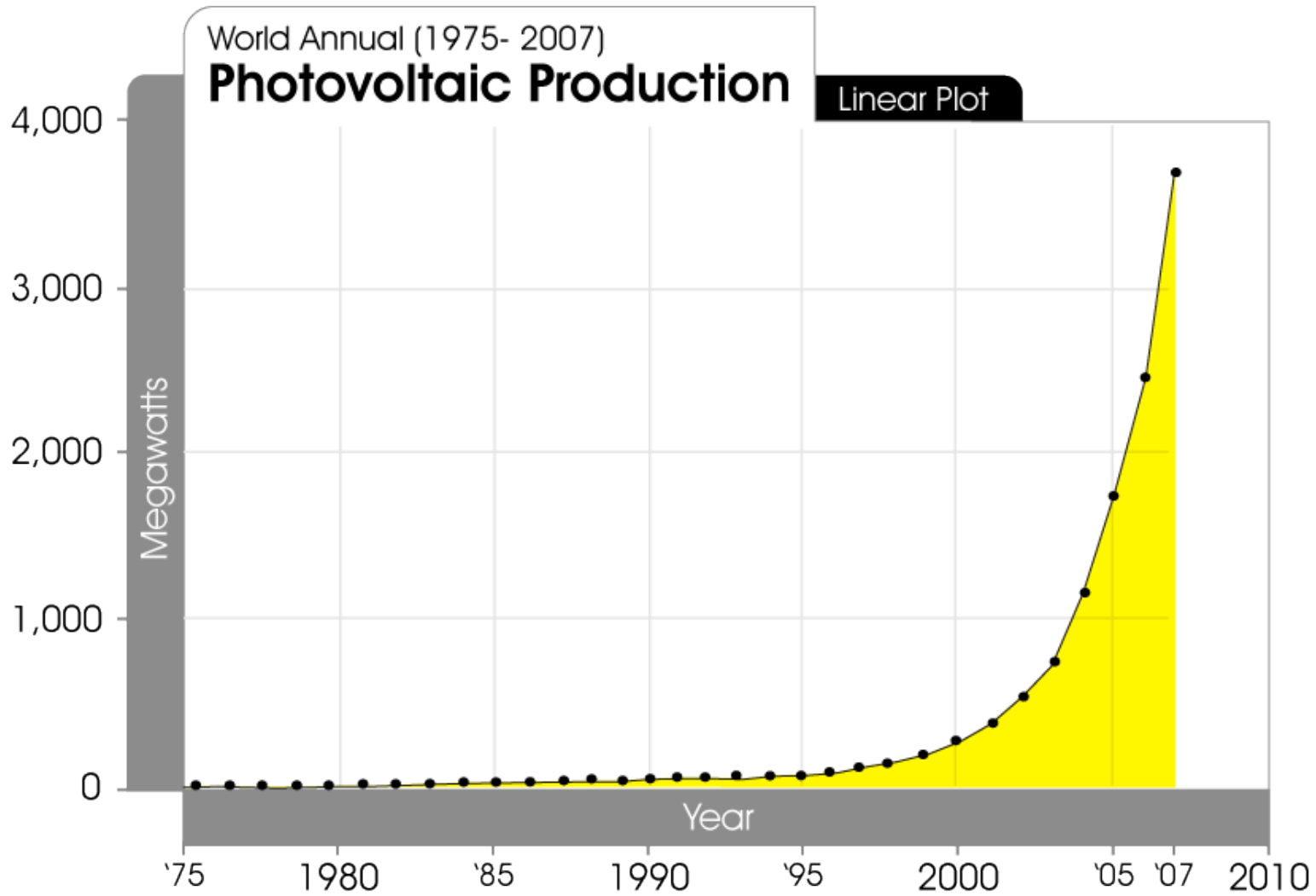


Example

Solar Production



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In 2009 the we had citizens from 13 nations:

- 17 USA
- 5 Canada
- 5 Israel
- 3 UK
- 2 Mexico
- 1 Brazil
- 1 Bolivia
- 1 India
- 1 N. Zealand
- 1 Poland
- 1 Portugal
- 1 Turkey
- 1 Russia

Gender:

- 14 (35%) females
- 26 (65%) males

Age range:

- average age: 31 yrs
- min: 22 yrs
- max: 47 yrs

For our 2010 program we have received over 1600 applications from 85 countries!

Student Selection Criteria



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2009 Program

- 40 students selected
- 1200 applications

2010 Program

- 80 students
- 1600 applications

2011 Program (est)

- 120 students
- ?? applications

Students are selected based on the following 3 criteria:

Top in their field/ University

Students are selected in 1 of the 10 “tracks” and must be in the top of their class.

Demonstrated Entrepreneurs /Leaders

Students must be demonstrated entrepreneurs or leaders (*having founded companies, research projects and/or organizations*)

Passion about grand challenges

Show a thirst and commitment to addressing humanity’s grand challenges and opportunities.



Technology Tracks

1. AI & Robotics
2. Nanotechnology
3. Networks & Computing Systems
4. Biotechnology & Bioinformatics
5. Medicine, Neuroscience & Human Enhancement

Resource Tracks

1. Future Studies & Forecasting
2. Policy, Law & Ethics
3. Finance & Entrepreneurship

Application Tracks

1. Energy & Ecological Systems
2. Space & Physical Sciences

Health Experience

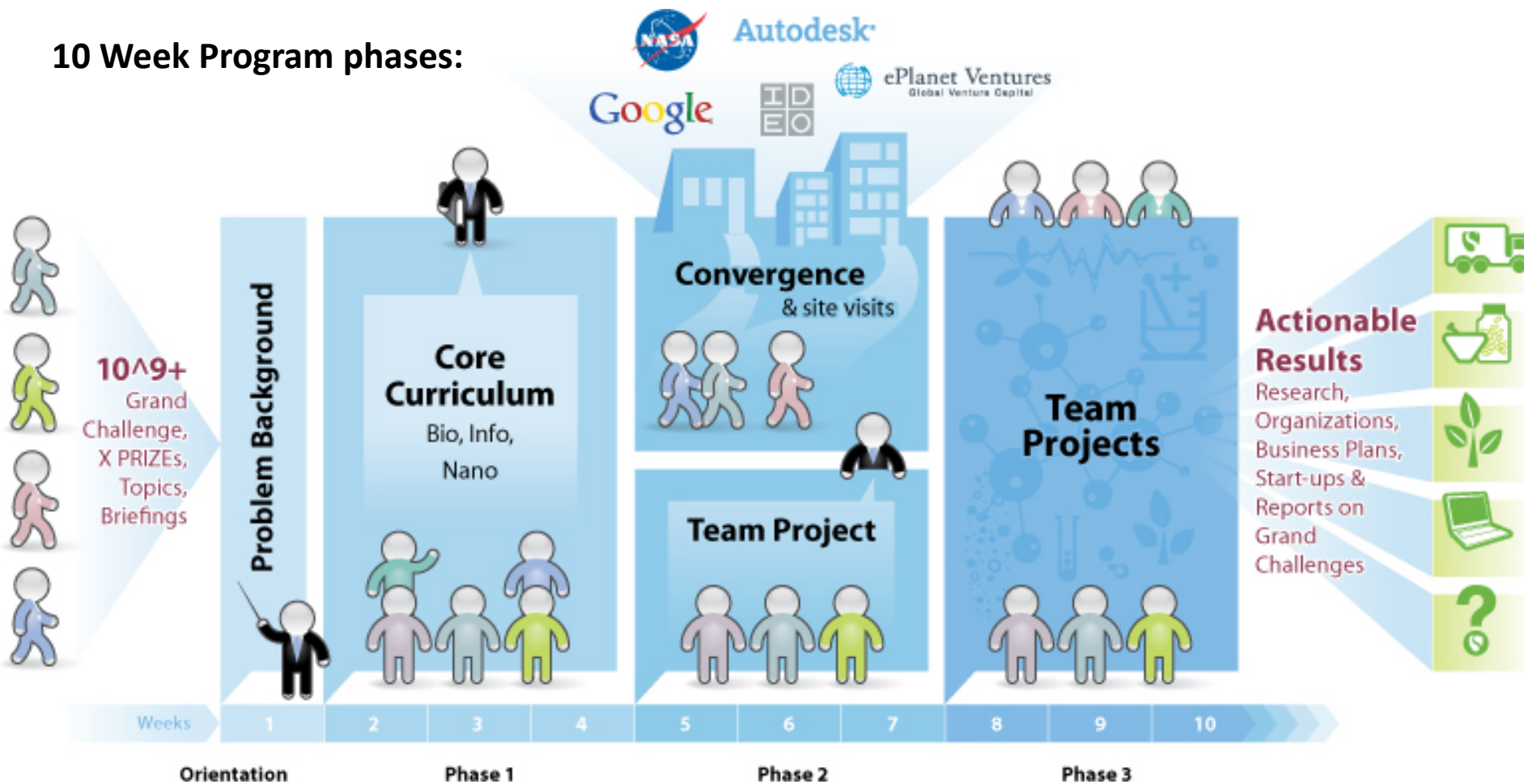
1. Exercise
2. Healthy meals

Innovation Engine



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10 Week Program phases:



Team Projects 10^9+



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Team Projects:

10⁹+

..ten to the ninth, plus

Each summer, students are asked to design a product or service that will positively impact 1 billion people in 10 years by leveraging accelerating technologies.

GSP09 Team Projects



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Enables a new paradigm for disaster response through innovative solutions to facilitate evacuation, medical triage, and aid during natural disasters.

www.civiguard.com



Focuses on advances in rapid, additive manufacturing technologies to **construct affordable and customizable housing** in the developing world.

www.weareacasa.com



Creates a marketplace for **peer-to-peer car sharing** to increase car accessibility, decrease energy usage, and develop an intelligent transportation grid.

www.gettaround.com



Envisions a platform that will provide a set of modular programming tools accessible through a web portal where individuals can **create education and commerce applications** that empower their communities.

Track Chairs



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- **Dan Barry, MD/PhD** President, Denbar Robotics, former NASA astronaut
- **Neil Jacobstein, CEO, Teknowledge; Media X Prog, Stanford Univ**
- **Daniel Kraft, MD, Instructor, Cancer/Stem Cell Biology Institute, Stanford University**
- **Tara Lemmey, CEO of LENS Ventures; SU Track Chair for Policy, Law & Ethics**
- **Ralph Merkle, PhD, Senior Research Fellow, Institute for Molecular Manufacturing**
- **Bob Metcalfe, PhD, General Partner, Polaris Venture Partners**
- **David S. Rose, CEO Angelsoft, Managing Principal, Rose Tech Ventures**
- **Paul Saffo, PhD, Visiting Scholar in the Stanford Media X research network**



Advisory Faculty



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- **Sonia Arrison, Senior Fellow, Pacific Research Institute**
- **Tom Byers, Faculty Director, Stanford Technology Ventures Program**
- **Vint Cerf, Vice President and Chief Internet Evangelist, Google Inc.**
- **Chris DiBona, Open Source Program Manager, Google Inc.**
- **Tim Ferriss, Author, The 4-Hour Workweek**
- **Larry Smarr, PhD, California Institute for Telecom & Information Technology**
- **George Smoot, PhD, University of California, Berkeley; 2006 Nobel Prize in Physics**
- **Will Wright, Creator: SimCity, Spore; Founder, Maxis (Electronic Arts)**





Watch the Graduate Studies Program Video:

http://www.youtube.com/watch?v=Tm6gmgG_RbU

[Singularity University](http://www.singularityuniversity.com)