Future of Work Workshop
First name and one word on what you do
IS THIS YOU?
Listened to your parents.
Took all the advice...
Followed conventional wisdom...
Studied hard.
Did what you were supposed to do...
You got a decent job!
...and you're working hard!
Really HARD!!!!!
The world around us is changing fast....
World around us is changing fast

- Artificial Intelligence & Robots are on the move
  - Robots will take 50% of our jobs by 2050
- We need to accommodate 105 million additional students
  - Need smarter ways to provide access to education through IT
- Most kids in school will end up in a job that does not exist today
  - Need to reinvent yourself and reinvent your job
- Most will have flexible work assignments
  - Professional permanent freelancers (40% today)
- Business models are changing fast
  - Crowdsourcing for services
Where do you see the biggest changes on the horizon for Puerto Rico?
Technology everywhere

- Smart Cities
  Connected Communities
- Smart Planet
  Green Environment
- Smart Energy
  Electric Grid
- Smart Transport
  ITS, HEVs, EVs
- Smart Buildings
  Buildings, Smart Homes
- Smart Industry
  Industrial Environments
- Smart Living
  Entertaining, Leisure
- Smart Health
  Healthcare System

Source: IERC European Research Cluster
Harry Potter-esque apps in train stations
## Around the house

<table>
<thead>
<tr>
<th><strong>Sen.se Mother</strong></th>
<th><strong>Smart Thermostats</strong></th>
</tr>
</thead>
</table>
| • Mother connects to cookies that sense motion and temperature of things and people | • Save energy and money  
• Adapt to your usage patterns  
• Act as the main control center at home |

<table>
<thead>
<tr>
<th><strong>Dacor Discovery</strong></th>
<th><strong>Smart Trash Can</strong></th>
</tr>
</thead>
</table>
| • Connects to Internet  
• Controlled with Smartphone  
• Your food is ready | • Smart trash can: catches your garbage for you like a wide receiver |
The PC calculates where the trash will fall, and communicates it to the can via wireless connection.
On your body

<table>
<thead>
<tr>
<th>Smart watch</th>
<th>Smart shoes &amp; socks</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Functionality versus Design</td>
<td></td>
</tr>
<tr>
<td>• Always connected</td>
<td>• Socks infused with 100% proprietary textile sensors</td>
</tr>
<tr>
<td></td>
<td>• Monitoring steps, altitude, speed, calories, distance</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>From Wristbands to Jewellery</th>
<th>Garments</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Monitoring fitness</td>
<td>• Smart garments to overtake wristbands</td>
</tr>
<tr>
<td>• Controlling sleeping patterns</td>
<td>• Better functionality</td>
</tr>
<tr>
<td>• Not stylish enough yet</td>
<td></td>
</tr>
</tbody>
</table>
Your body – human augmentation
Useful tools

**Scanadu Scout**
Analyzes a person’s vital signs—heart rate, temp, respiratory rate, blood oxygen level, blood pressure and physical stress.

**Emotions**
Septimu Ear Buds allow sensors in ear buds to work out what mood you are in at the moment.

**My Vessyl**
Smart cup: knows and aggregates the makeup of everything you drink.

**Translation in real time**
- Real time translation apps
- Available for free
Check it out yourself
# Future of transportation

## Car2GO
- Tracked and rented using a Smartphone
- Car2Go also handles billing, parking and insurance automatically

## Streetline
- Embedded street sensors
- Users can identify real time availability of parking spaces on their phone

## The Flying Car Era
- Starting with Drones
- The FSC-1™ flying car can convert between car and airplane in 30 sec

## Driverless Car
- A reality today
- Regulatory hurdles
- Cities are getting ready
QUICK DISCUSSION – 3min and report out

Which jobs do you expect to thrive in the Digital Age?
Put it to the test

Example

Type your job title into the search box below to find out the likelihood that it could be automated within the next two decades.

About 35% of current jobs in the UK are at high risk of computerisation over the following 20 years, according to a study by researchers at Oxford University and Deloitte.

Chartered and certified accountants

Likelihood of automation?
It’s quite likely (95%)

How this compares with other jobs:
26th of 366
Webseite einfügen


Geben Sie unten die URL ein:

https:// www.blu.com/secure technology 34008861

Hinweis: Viele verifizierte Webseiten ermöglichen den sicheren Zugriff. Klicken Sie auf die Vorschauansicht, um zu überprüfen, ob auf die Webseite zugreifen kann.
Jobs of the Future

- Therapists
- Care Takers
- Nano Medics
- Virtual Reality Experience Designers
- Smart Home Handypersons
- 3D Engineers
- Urban Farmers
- Aggregators
- Web designers
- App coders
- TBD
Skills in Demand

- Sense Making
- Social Intelligence
- Novel & Adaptive Thinking
- Cross Cultural Competence
- Computational Thinking
- New Media Literacy
- Trans-Disciplinary
- Design Mindset
- Cognitive Abilities
- Virtual Collaboration
99 Designs
Amazon Mechanical Turk
Upwork
Freelancer
One Space
Fiverr
Each Team pick one crowdsourcing platform and check it out
Choose one of these three tasks:

1. Mid-size company – writing expertise
2. Retiree looking for a simple job
3. Large company – need to extend your team with knowledge workers
How can you prepare for this future?
If you are a company: Invest in your people.
E-Culture Initiative – Example HVB

DIGITAL SKILLS

Food for Thought Webinars
Extranet-Portal
HR Trainings

Coding Workshops
DigiTalk@HVB
HVB DigiDays

DIGITAL COMMUNITY

FinTech Meetup Munich
Hackdays Hackathons
Digital Leaders Lunch
Meetups in Puerto Rico – Join the crowd
https://www.meetup.com/about/
QUICK EXERCISE – GROUPS – 3Min

Check out the Puerto Rico Meetup Scene and
If you are an individual – INVEST in YOURSELF
LIFE LONG LEARNING

Keep Educating Yourself
EXERCISE NUMBER FIVE – small groups 2min + report out

Which MOOCs are you familiar with?
Take a few minutes to play around with these sites and report back about your experience
Example: edX
About this course

This psychology course is an introduction to the field of psychology. It begins by asking “What is Psychology?” and provides some concrete answers to that question. Next, it covers the history of psychology and provides a look at the state of psychology today.

What you’ll learn

- What psychology is and is not
- The history of the field of psychology and the state of contemporary psychology
- Research-based study skills
- The research methods of psychology, including descriptive methods, correlational methods and experimental methods
- The basics of descriptive and inferential statistics

Meet the instructor

Steven J. Barnes

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Over 100 courses

Photography
Over 1700 courses
Example: Khan Academy
Example: Khan Academy

Introduction to Economics

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The beginnings of the

And, once again, this is very important. This is valuable. It is valuable to make these mathematical models,
Duolingo
QUICK DISCUSSION – SMALL GROUPS

Propose an idea of a concrete action your team can take after today!
Finally:

Do something new!!