Accessible Smart Cities
Cities

Applying technology for public good.

@JohnPaulFarmer
Computers understanding the world

- **Perception**
  - Vision

- **Cognition**
  - Speech
  - Language
  - Knowledge

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Reaching human parity

- Vision human parity: 96%
  - Year: 2016

- Speech human parity: 94.6%
  - Year: 2017

- Translation human parity: 69.9%
  - Year: 2018

- Reading human parity: 88.5%
  - Year: 2018
Advances that make AI real

Vast amounts of data + Huge computational power
1 in 5 people have disabilities and need assistive technology.

But only 1 in 10 have access to the products people need.

And all of us at some point in our lives will need assistance.

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# Inclusion technology is for all of us

Tools created through inclusive design help all of us be more productive throughout the day and help some of us be able to participate in the digital world altogether.

<table>
<thead>
<tr>
<th>Tools</th>
<th>Productivity</th>
<th>Situational</th>
<th>Temporary</th>
<th>Permanent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Read Aloud</td>
<td>Help in reading long RFPs to get through material more quickly</td>
<td>Bright sunlight</td>
<td>Eye surgery</td>
<td>Dyslexia</td>
</tr>
<tr>
<td>Translator</td>
<td>Real time translation and/or subtitling for ease of communication and increased comprehension</td>
<td>Need for increased focus</td>
<td>Stopped up ears due to illness</td>
<td>Deaf/hard of hearing</td>
</tr>
<tr>
<td>Dictate</td>
<td>Convert speech to text to create emails hands-free while walking between meetings</td>
<td>Hands full</td>
<td>Broken arm</td>
<td>Limited reach or strength</td>
</tr>
</tbody>
</table>
Accessibility is a business imperative

Companies that embrace best practices for employing and supporting persons with disabilities in the workplace outperform their peers.*

<table>
<thead>
<tr>
<th>28%</th>
<th>2x</th>
<th>30%</th>
</tr>
</thead>
<tbody>
<tr>
<td>higher revenue</td>
<td>higher net income</td>
<td>better performance on economic profit margin</td>
</tr>
</tbody>
</table>

*Accenture study: The Disability Inclusion Advantage*
If you don’t design for accessibility & inclusion

“... It’s like saying to every fifth person who walks in your door... ‘I don’t really want your business.’”

Bert Floyd,
Team Lead of Assistive Technologies,
TD Bank, Canada
Accessibility
Powered by Azure

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Accessibility
Powered by Azure

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Inclusion tools address customers’ needs

Across various industries, we meet customers’ needs, wants, and pain points

<table>
<thead>
<tr>
<th>Customer</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Talent attraction &amp; retention</td>
<td>Inclusive culture helps attract socially conscious next gen workers and retain valuable aging employees</td>
</tr>
<tr>
<td>Compliance</td>
<td>Reduce risk and help organizations comply with accessibility laws and standards</td>
</tr>
<tr>
<td>Innovation</td>
<td>AI has the power to be a force multiplier to solve the biggest challenges in accessibility - technology that adapts to you</td>
</tr>
<tr>
<td>Independence</td>
<td>Every citizen lives, works and plays in their preferred way through flexible technology and personalization</td>
</tr>
</tbody>
</table>

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AI for Accessibility
A $25 million program that harnesses the power of AI to amplify human capability for the more than one billion people around the world with a disability.

Apply now › Get our grant details ›

Employment • Daily Life • Communication

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Cities

Applying technology for public good.
No one is coming.

It’s up to us.
Thank you