



Building AI Capabilities

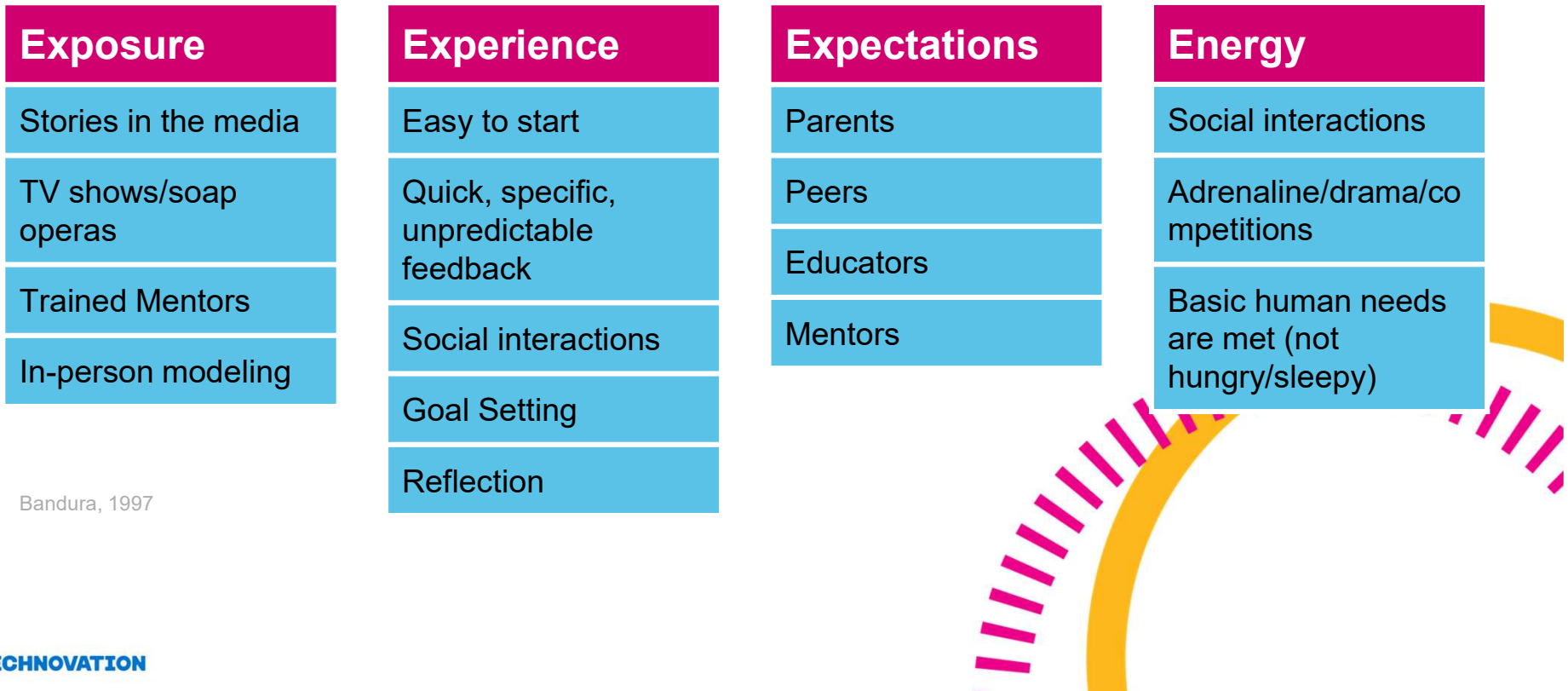
10 years of coding in the US

- . **Women CS undergrads decreased by 2%**
- . **African American CS undergrads has decreased by 3%**
- . **Hispanics has increased slightly by 3%**

What went wrong

1. Syntax first ~~≠~~Lack of Purpose ~~≠~~little change in interest & beliefs
2. Learning how to code ~~≠~~problem solving
3. Not enough social support → attrition at every level

BUILDING Self-Efficacy -at Scale



Bandura, 1997

Global Competition enabling Creative,real-world problem solving



Girls and Families solving real-world problems



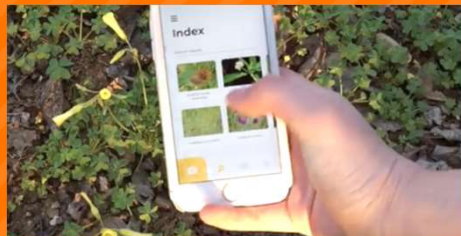
Using AI to identify signs of child abuse from drawings



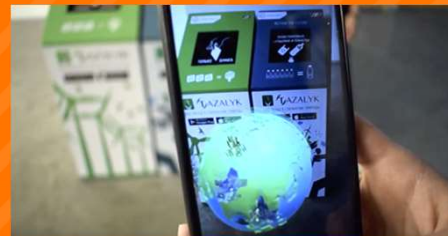
Robotic AI prototype to remove invasive duckweed



Mobile app to transfer social work cases between NGOs



Invasive weed recognition app for farmers



3D augmented reality game for eco-conscious behavior



App to make learning accessible in remote areas

150,000 participants

