

Sustainability + Human Development

- Is the food we eat scalable, sustainable, healthy, nutritious and tasty?
- Is the air we breathe clean?
- Is the water we drink pure?
- Is there a way to produce energy that is relatively abundant, cheap and clean?
- Is there a way to reverse or mitigate climate change?
- Can we create a livable habitat on another planet?
- Can we grow crops effectively by using small amounts of land?
- Can we build sustainable power solutions that are clean?
- Can we create biodegradable material for our everyday products?
- Can we help break down trash and waste into natural safe material?
- Can we build systems that provide humans with a fair and equitable means of compensation and a sense of purpose?

Technology Infrastructure + Artificial Intelligence

- Is there a way to structure, pipe and manage data better?
- Are there ways to improve productivity given the information overload and noise we have in our work communication?
- Can we make access to information affordable?
- Can we assist in critical machine to machine communication?
- Can we make it easy to apply machine learning to all the complex problems we face?
- How can we bring data science to help solve increasingly complex everyday problems?
- Can we enable people who don't know programming to build applications?
- Can we print or manufacture products at the point of consumption?
- Can we build smart and intelligent systems that will respond to human needs?
- Can we educate people in small, continuous ways so they keep learning throughout their lives?

Healthcare + Life Sciences

- Can we longitudinally study humans so we can predict when they will fall ill?
- Can we catch people at risk for chronic diseases (COPD, CVD, Diabetes, HF, mental health, neurological disorders, autoimmune disorders, cancer) before they are at risk?
- Can we improve the outcomes for people that suffer from chronic non-communicable disease (COPD, CVD, Diabetes, HF, mental health, neurological disorders, autoimmune disorders, cancer)?
- Can we find ways of treating infections using new methods that are more cost effective and adaptive?
- Is there a way to look at the whole genome of a human being and spot areas that could make them susceptible to disease?
- Can we intervene non-invasively in critical conditions to bring better outcomes?
- Can we detect disease through continuous non-invasive monitoring?
- Can we help people live healthy elongated lives?

Transportation + Urban Infrastructure

- Is there a way to build better, cleaner cities?
- Is there a way to build cheaper, affordable and comfortable homes and offices for all?
- Can we build new transportation methods that enable us to take someone from point A -> B faster?
- Can we allow people to be productive while they are being transported?
- Can we find mid-range transportation that is convenient and has a better form factor?
- Can we enable large fleets of cars to move around efficiently?
- Can we transport goods in very inexpensive ways autonomously?
- Can we find faster means for inter-continental transport that is cheap and affordable?
- Can we build an engine that allows for 100X improvement in space transportation?

Digital Immersive Learning / Therapies + Ambient Computing

- Can we build interfaces that respond to a multi-sensory input?
- Can we build systems where users can feel or experience an environment?
- Can we make knowledge available at the speed of thought?
- Can we provide directions to computers based on thought?
- Can we improve interfaces so we don't lose the social fabric that has been so important to humanity's development?
- Can we educate humans in interesting ways so they learn to think in multi-disciplinary ways?
- Can we allow machines to conceptually communicate with each other?

