

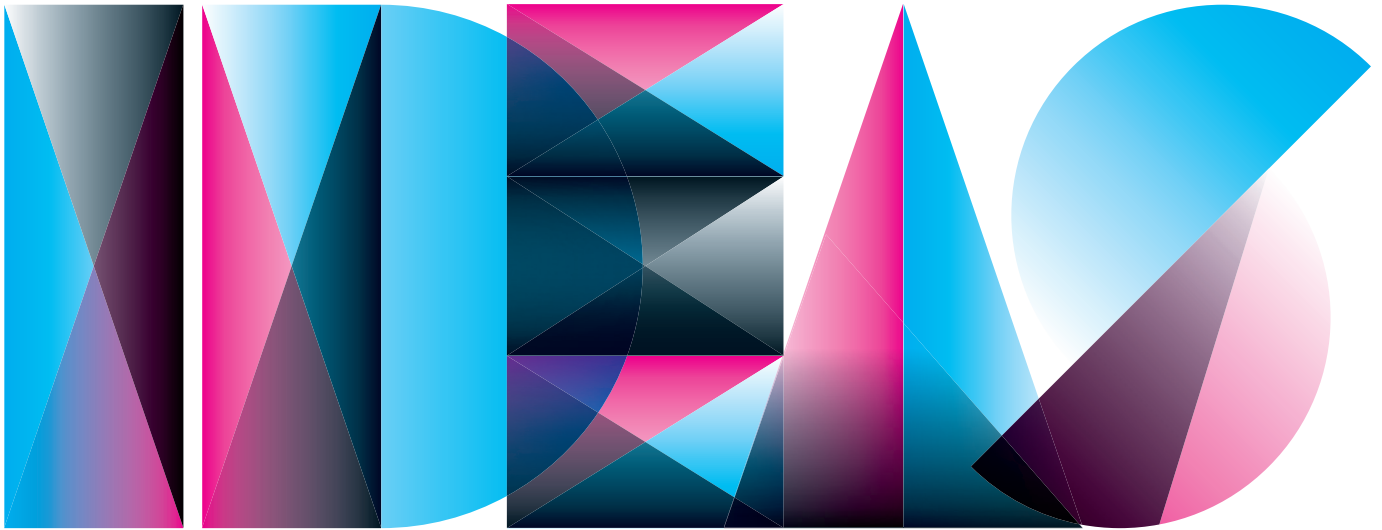




INNOVATION

2016

# WORLD CHANGING



## 10 BIG ADVANCES

with the potential to solve problems  
and improve life for all of us

**The phrase “world changing”** is overused. Yet how else do you capture the full world-historical influence of an invention like the transistor, or the World Wide Web, or the cellular phone? Some ideas really do bend history. It’s too early to know whether carbon-breathing batteries, ingestible robots, quantum satellites, and the seven other ideas described in these pages will have a similar effect. Most plans fail, and the biggest ideas tend to carry the greatest risk. But it doesn’t take long for an idea to go from laughable to inevitable. And a few of those, of course, go on to become transformative. —*The Editors*