

13 Amazing Technological Advances That Are Changing Your World

As the future barrels toward us, new issues arise every day. These exciting inventions are working to combat the world's problems — proof that [#Israelisonit](#).

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Israel Is On It
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1. Desalination: making salt water drinkable



Drought is a major issue around the world. So how do we find more drinking water? Look to the sea. [IDE Technologies](#) is using a reverse-osmosis process to create a new source for freshwater.

2. Illusive Networks: a system to beat cybercrime



Israeli startup [Illusive Networks](#) has a new plan for protecting sensitive data and beating cybercrime: make the hackers believe they've already succeeded by providing them with fake, useless information.

3. IceCure: freezing breast tumors to death



A cure for breast cancer? Getting there. Israeli biomed company [IceCure](#) has developed an FDA-approved process that kills benign tumor cells in the breast by freezing them. The process is not surgical, not painful, and takes about 15 minutes.

4. Fast ACL: a new knee implant that gets you up in no time.



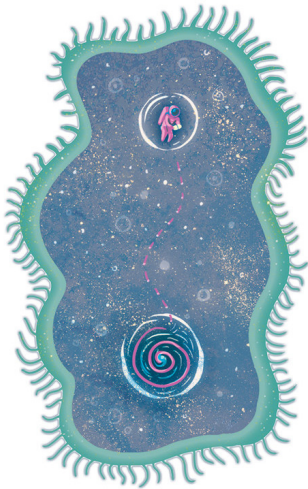
When an athlete tears an ACL, it can mean the end of a career. Israeli startup Tavor is working to change that with the invention of the [Knee-T-Nol](#), a metal implant that can help athletes recover faster.

5. Waze: an app that helps people help each other find their way



There's a good chance you've already used [Waze](#) — after all, [Google bought the Israeli company for \\$1.3 billion in 2013](#). Waze users help each other by reporting slowdowns, road closure, and speed traps, and the result is a map that gets you there without a hitch.

6. Gagomers: a system that increases the accuracy of chemotherapy



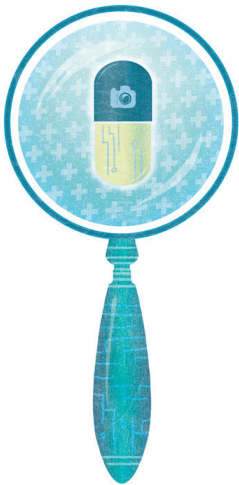
Gagomers, discovered at [Quiet Therapeutics](#) in Israel, are nanoparticle clusters unique in their ability to target malignant cancer cells. Gagomers [bind the cells and then deliver their therapy](#), killing the bad cells and leaving the good ones unharmed. This technology has the potential to minimize side effects for chemotherapy patients, since it [transports the drugs directly and specifically to the cancer cell](#).

7. Antibacterial nanoparticles: keeping hospitals safer with fabric



Bacterial infections contracted during a hospital stay cause or contribute to [over 75,000 preventable deaths per year](#). A professor at Bar-Ilan University in Israel has [developed an antibacterial fabric](#) to reduce the occurrence of these bacterial infections.

8. PillCam: a way to finally see the small intestine



The human gut is about 25 feet long, and endoscopy and colonoscopy can show only the two ends of the digestive tract. [PillCam is a pill-sized TV camera invented by Given Imaging in Israel](#). When swallowed, it travels through the intestine and provides eight hours of images to the doctor — all without anesthesia.

9. Mobileye: a car camera that sees what you don't



Mobileye was founded in Israel in 1999 and now comes standard in most American cars. With Mobileye technology, drivers [receive alerts](#) if they are drifting into another lane or if they need to take action to avoid hitting a car.

10. ReWalk: a metal exoskeleton to help the disabled walk



ReWalk is a [wearable robotic exoskeleton](#) that allows people with spinal cord injuries to walk on their own. In 2014, ReWalk became [the first](#) exoskeleton to be [approved by the US FDA](#).

11. WeCU: able to read the mind of potential terrorists



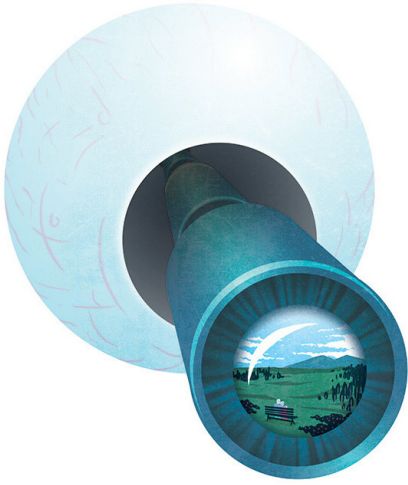
When a passenger in an airport is planning to commit an act of terror, they exhibit emotional strain — strain that goes undetected. [WeCU \(We See You\)](#) is an Israeli tech company that is working on a system to identify those emotional signals and stop potential terrorists before they act.

12. Like-a-Fish: lets divers breathe underwater without a tank



Like-a-Fish is [tankless diving gear that is able to extract air from water](#). It was created by Israeli scientist Alan Bodner in 2001 and is a boon not only for divers but for submarines, which can utilize the technology to remain underwater for much longer periods.

13. Implantable Miniature Telescope: helping people with macular degeneration see better



Israeli company [VisionCare](#) created the [FDA-approved](#) Implantable Miniature Telescope, which can actually be implanted in the eye. The telescope implant improves visual acuity and quality of life for patients with age-related macular degeneration.

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We're working toward a better world — and [#Israelsonit](#).