



I'm not robot



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Save the earth asteroid earth games

A 1,200-foot asteroid is heading straight for Earth. You have five days to come up with a plan or go down the path of the dinosaurs. It's not the script for the Day After Tomorrow sequel - it's the script that war-gamed a room full of PhDs as we speak. The Planetary Defense Conference is a meeting of scientists, engineers, policymakers, and people who do not want to see crushed asteroids currently taking place in Frascati, Italy. It looks like most other scientific conferences - papers, seminars, many people with nameplates to get lost in - but one fundamental difference: asteroid war games. In the space of five days, conference participants will play an asteroid scenario that would, in real terms, last about seven years. People like me are stuck on another continent, they can follow it online. The exercise was started with the vision of our hypothetical world-destroyer, asteroid 2015 PDC: The recently discovered near-Earth asteroid is projected to pass very close to Earth on September 3, 2022. The asteroid, named PDC 2015, was discovered on April 13, 2015 and has been closely followed by observers around the world for the past two months. Predictions of the asteroid's 2022 encounter show that while unlikely, an impact from Earth cannot be ruled out. The current probability of impact is about 0.9% or 1 in odds of 110, according to the International Asteroid Warning Network (IAWN), a world partnership of agencies that detect, track and track potentially dangerous asteroids. As the day goes on, the teams drip-fed a little more information. It's April 4, 2016, and the chance of an asteroid impact is 43%. In other words, things are getting real. Worst-case scenariosThe 1,200-foot asteroid impact doesn't sound like the end of the world - and technically, it doesn't. Matt Holman, director of the Smithsonian Minor Planet Center, said an asteroid this size wouldn't be the end of life - but it would still be a disaster. G / O Media can get commissionHow epic? 2,250 megatons, the tnt of 2,250 million tons. To add order of magnitude, the largest nuclear device ever detonated, the Bomb Tsar, was 50 megatons. The 2013 Chelyabinsk meteor that hit Russia was 50 to 60 feet wide with 0.5 megatons of energy. Here's what the blast radius would be in the 2015 PDC if the asteroid were to hit Gizmodo HQ in New York City head-on:The asteroid would create an impact crater 5-7km wide, 500 feet deep, leading to a 6.8 magnitude earthquake. Within a 20-mile radius, everything would be completely destroyed, while fireballs and 140 mph winds would extend up to 100 miles per mile. But that's not the worst-case scenario. This honor is for an asteroid that strikes at sea. Based on the angle of impact, the asteroid could cause a tsunami, generating waves 20 feet high along the coast of an entire continent. So, what do we do? Our possible directions of action are mostly depend on how you and the size of the asteroid. How to stop an asteroid In the case of asteroid 2015 PDC, humanity must neutralize the threat by 2022. With an asteroid this size, an oversized rocket to crush it, it would be a bad idea: large chunks big enough to enter our nuclear sphere would still float, but in a way that would be too random to predict and turn our planet into a major accident site. This means that asteroid deflection is the better choice. The deflection is a bit of a misnomer, says Holman: He's not really trying to change direction. Imagine it as a crossroads - there will be a point in time when the asteroid and Earth are in the same place. You can't change the paths they're on, but you can speed up or slow down to avoid each other. Essentially, deflection involves accelerating or slowing the asteroid to fall short of Earth. There are several options to change the speed. One way - the most basic - is to approach a nuclear device and detonate it nearby. This would evaporate part of the asteroid, and the effect of the vaporizer from the surface would put pressure on the main body, thereby altering the speed. Another option is a space-based laser, mounted on a satellite that can similarly fry the asteroid, evaporating matter and achieve the same result. Other options include the impact of the asteroid on a satellite, transferring kinetic energy in the old-fashioned way, like an intergalactic toy pool. Finally, of course, you can land a spaceship on the asteroid as well, fire a rocket and push it down naturally that way. If we deal with the timeframe of months, not years, the list of work solutions decreases dramatically. A 2013 study found that the only practical solution for an asteroid in a year's time is nuclear - firing a small rocket to the surface of the asteroid, and tracking a nuclear rocket that will hopefully fragment the asteroid while not showering our planet with chunks of flaming stone. According to Politics of DoomBack italy, the teams have been working hard to find the best solution to the half-kilometer problem flying towards the planet. They spent the first two days (18 months in real terms) tracking the 2015 PDC, reducing the impact from 40 to 100 percent and calculated the impact corridor - the red band along which the asteroid could reach. The 3rd World End Day was calculated for 3 September 2022, with a list of countries at risk, including the Philippines, Vietnam, Laos, Thailand, Myanmar, Bangladesh, India, Afghanistan, Pakistan, Iran, Iraq and Törökországot.Az interesting - and very realistic - aspect of the asteroid scenario, media relations and geopolitics every day. Conference participants have colour-coded bridle: red for world leaders, green with others for scientists and the public. In addition to working out the physics to defeat the asteroid, the teams have to work out the delicate geopolitics (this list of endangered nations is not exactly the most stable) and develop the best media plan to inform the public, without increasing the membership of doomsday cults too much. As of this morning (also known as August 1, 2019), six Kinetic Impactors are on the launch pad, ready to take off later this month. Overall, they only need to change the speed by one inch per second, but we won't know if the mission was successful until 2020 (or tomorrow morning). The last day update will be posted on the NEO website tomorrow morning; In the meantime, you still have time to work on your doomsday retreat. Image credit: Don Davis/Getty Images Science & Exploration 21/01/2014 9945 views 61 likes ESA/Science & Exploration/Human and Robotic Exploration/Education A Comet towards Earth threatens humanity's existence - that was the virtual scenario of this year's Zero Robotics tournament. Across Europe, high school students piloted miniature satellites on the International Space Station to save our planet. The space station was turned into a playing field in the final. The ultimate robot game challenged young people to write algorithms that controlled the spheres, abbreviating synchronised position holding, engage, reorient, experimental satellites. Spheres at the station The spheres are volleyball-sized satellites code to redirect an incoming comet while taking into account space junk and limited laser resources. The European finalists met at the ESA Technical Centre in the Netherlands to follow the competition live from space. U.S. troops joined the Massachusetts Institute of Technology. André model spheres on the station, NASA astronaut Richard Mastracchio and astronaut Oleg Kotov watched the robot battle. ESA astronaut André Kuipers, who watched from space in 2012, said: 'These finals are a great combination of game, science and technology. Robotics has a promising future that will help us on the field. It was amazing to see how our codex woke up the spheres floating next to the astronauts. Said Eva Krebs of the German team Käthe in Space. At school, our commands remained on our computer screens, but this time we saw that the real thing works in space. Fifth team The competition started last year with the online rounds getting harder. The teams faced real challenges: they had to deal with the loss of signal, the exhausted and tight deadlines. Long nights between programming and lots of debate Teams decide tactics are all part of the game. Each finalist formed a three-team alliance from different European countries. The 18 teams came from Italy, Germany, France, Spain, Romania, Belgium and the Netherlands. As a virtual comet approached, satellites had to use gravitational pull, laser repulsion or a combination of methods to change the path of planetary extinction. Our strategy was to navigate towards laser power, avoid space fragments, take power-ups and shoot down the comet, explains tommaso Chemello, a member of the winning team proudly. The first prize went to the C.O.F.F.E.E. - Society of Fantastic Warriors and Extravagant Experimenters - whose teams were Sunday programmers (Padua, Italy), Nemesis (Pozuelo de Alónarc, Spain) and Hello World (Paris, France), Team C.O.F.F.E.E. We learned that there is a big difference between the simulation phase and the real-time race at the station. Things don't always go according to plan, admits toMmaso.European contestants enjoyed an all-day space robot at ESA Technical Center. In addition to meeting new people and working as a real team, they built critical engineering skills. The motivation from the competition is priceless. Students of previous events are now pursuing a career in engineering, points out Enrico Lorenzini, coordinator of the Italian University. Thank you for liking I've liked this site, you only like it once! Once!

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