



Prof. Dr Sirkka Heinonen

Has long experience and expertise in futures research.

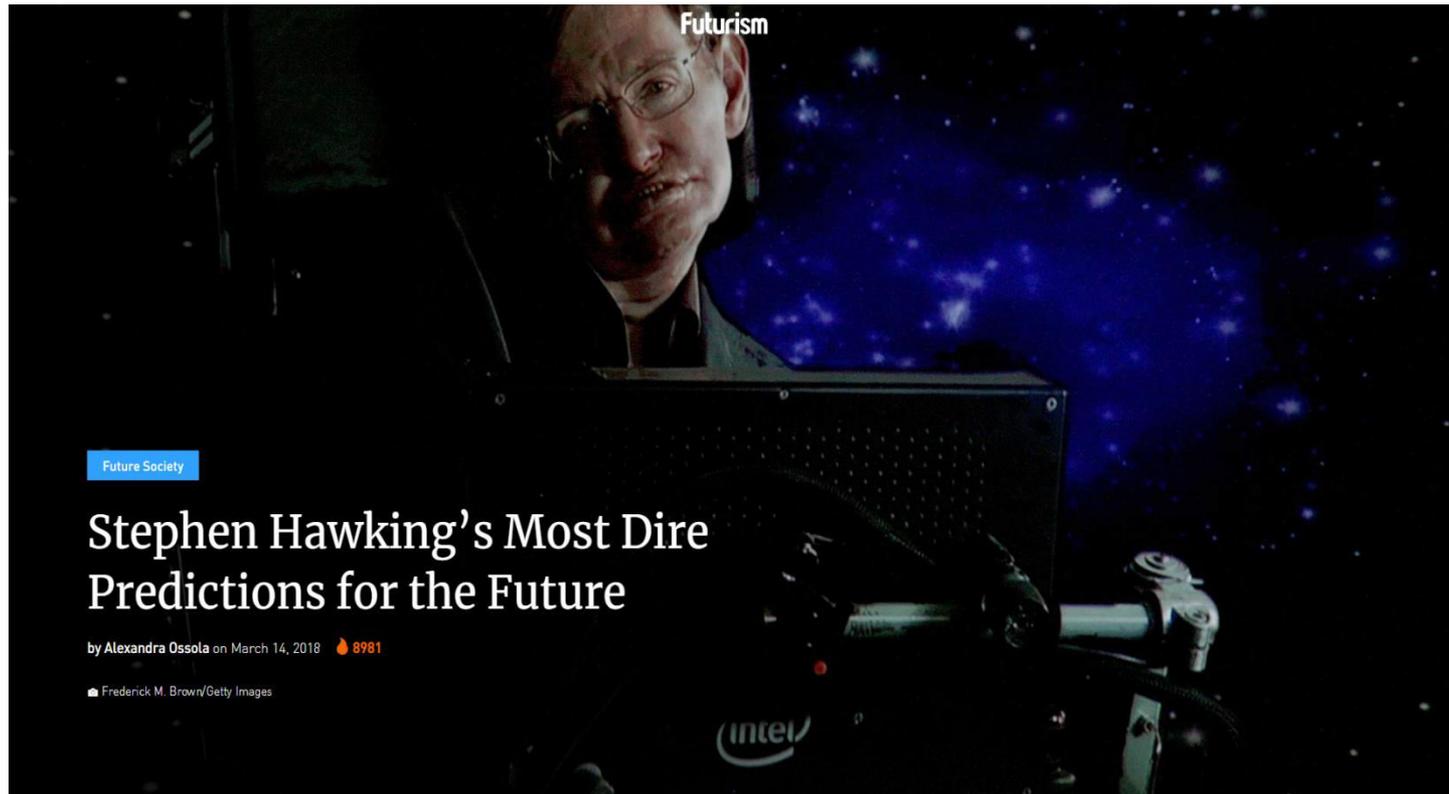


- Her projects focus on
 - technology foresight,
 - the future of cities and rural areas,
- information society, sustainable development, ambient intelligence, social media,
 - future work,
 - construction and housing, future of transport and mobility, lifestyles,
 - and philosophy of technology.
- She reported on the state-of-art and scope of futures research in other countries to help organise Finnish futures studies in the 1980s.
 - In the late 1990s and again in 2008 she was involved in preparing the Finnish Government's Futures Report to the Parliament (climate and energy scenarios),
- and in renewing the Finnish National Strategy for Information Society.



Prof. Heinonen has expertise in studying the perceptions of time, futures thinking,

- technology and nature within the framework of history of ideas,
- and anticipating the impacts and risks of technology on society.





Prof. Heinonen has long expertise,

After working for over 20 years as a futures researcher at VTT Technical Research Centre of Finland,

□ she is now Professor of Futures Research

- developing methodologies and conducting research at Finland Futures Research Centre (FFRC), University of Turku.**

□ She is Director of the Helsinki Office of FFRC and heads the Research Group of Media and Communications (FMC).

Prof. Heinonen has long expertise, Her aim:



- ❑ Is to promote futures learning and futures consciousness in Sustainable Knowledge Society, catalysing innovative solutions to global challenges amidst social and technological change.
- ❑ She has introduced the concepts of "Creative Foresight Space" and "Futures Cliniques",
 - ❑ and is involved in developing foresight methodologies:
 - such as scanning of weak signals and black swans/wild cards.
 - ❑ She is also in charge of the International Master's Programme in Futures Studies (120 ects) at University of Turku.
- ❑ She is President of the Finnish Society for Futures Studies,
 - Member of the Club of Rome,
 - and Chair of the Helsinki Node of the Millennium Project.
 - She is member of the pre-selection committee of the Finnish Millennium Technology Prize (MTP).
- ❑ In October 2013 she was appointed as Guest Professor for University of Science and Technology (USTC) in Hefei, China (for 2013-2016).
- ❑ She is a member of the Scientific Advisory Board for Defence in Finland (MATINE 2016-).



Prof. Heino's Research and Publications

□ Books, reports, and articles.

□ member of the editorial board of *Futures*, *European Journal of Futures Research*, and *World Future Review*.

□ Major studies:

- *MEDEIA Future of Media 2013-2015*,
- *NEO-CARBON ENERGY 2014-2017*,
- *Future of Cities 2014-2016. Proposal: Livable and Eco-Smart Cities Through Deliberative Futures Design and Innovation (funding pending)*

□ Lectures keynote talks for academia, cities, government and companies on:

- *Futures Research and Strategic Foresight (what, why and how)*,
 - *Future of Work/Learning/Media*
- *Future of Cities/Future of Construction and Housing/ Ubiquitous Society*
 - *Research Group of Future of Media and Communications (FMC)*
 - <https://sites.google.com/site/futuremediac/>

□ Master's Degree Programme in Futures Studies

<http://www.utu.fi/en/units/ffrc/studying/FutureMasters/Pages/home.aspx>

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Egypt – Finland

Proposed Partnership Prospects

- The International Master's Programme in Futures Studies at University of Turku .. What and How?
 - Developing foresight methodologies,
- Conducting research on mutual challenges .. Fundraising,
 - Promoting futures learning.

آفاق مقترح شراكة المستقبلات المصرية الفنلندية

- برامج دراسات ماجستير المستقبلات في جامعة توركو .. ماذا وكيف تتحقق الشراكة?
 - استحداث آليات البحث في الفكر المستقبلي .. ماذا وكيف تتحقق؟
 - تصميم البحوث المشتركة في التحديات المشتركة .. مصادر التمويل؟
 - برامج تشجيع الفكر والبحث والدراسة في مجال المستقبلات .. كيف؟

Futuristically

Thankful

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ومستقبلا

Future Society

Stephen Hawking's Most Dire Predictions for the Future

by [Alexandra Ossola](#) on March 14, 2018 🔥 8981

📍 Frederick M. Brown/Getty Images



Stephen Hawking was a brilliant astrophysicist who inspired and awed. He pushed our understanding of, curiosity about, and excitement for the universe around us. He made us laugh. He made us curious. He made us imagine.

He also, at times, made us afraid.

Hawking, who died this morning at the age of 76 after 52 years of living with amyotrophic lateral sclerosis (ALS, or Lou Gehrig's disease), will leave behind a deeply important legacy. But his paranoia about the future of humanity, especially in his later years, may prove to be one of the most lasting (and pertinent) aspects of that legacy.

These are a few of his most dire predictions:

AI Takeover

“The genie is out of the bottle. We need to move forward on artificial intelligence development but we also need to be mindful of its very real dangers,” Hawking said last year [in a Q&A with WIRED](#). “I fear that AI may replace humans altogether. If people design computer viruses, someone will design AI that replicates itself. This will be a new form of life that will outperform humans.”

As AI permeates more of our daily lives, Hawking isn't the only one to fear a robot takeover.

But there are other threats.

Self-Destruction

“Our earth is becoming too small for us, global population is increasing at an alarming rate and we are in danger of self-destructing... I would not be optimistic about the long-term outlook for our species.”

Hawking [said this in 2016 at an event](#) at Cambridge University, attesting his pessimism in part to the recent referendum for the United Kingdom to withdraw from the European Union. In a 2017 documentary, he said humanity has [just a century left](#) on Earth, down from the 1,000 years he predicted the year before.

That’s in part because of climate change and environmental destruction that, he feared, may make the Earth uninhabitable. Since he became president, Donald Trump had become a favorite target of Hawking’s:

“We are close to the tipping point where global warming becomes irreversible. Trump’s action [pulling out of the Paris Agreement] could push the Earth over the brink, to become like Venus, with a temperature of two hundred and fifty degrees, and raining sulphuric acid,” Hawking [told BBC News](#). “Climate change is one of the great dangers we face, and it’s one we can prevent if we act now. By denying the evidence for climate change, and pulling out of the Paris Climate Agreement, Donald Trump will cause avoidable environmental damage to our beautiful planet, endangering the natural world, for us and our children.”

Fortunately, though, he sees a solution.

Planetary Colonization

“If humanity is to continue for another million years, our future lies in boldly going where no one else has gone before,” Hawking said [at a festival in Norway](#) last year.

“We are running out of space and the only places to go to are other worlds. It is time to explore other solar systems,” he continued. “Spreading out may be the only thing that saves us from ourselves. I am convinced that humans need to leave Earth.”

“I hope it would unite competitive nations in a single goal, to face the common challenge for us all... A new and ambitious space program would excite [young people], and stimulate interest in other areas, such as astrophysics and cosmology.”

He laid out a fairly comprehensive series of benchmarks: nations should send astronauts to the Moon by 2020 (and set up a lunar base in the next 30 years). And we should get to Mars by 2025.

If Hawking is even remotely right, [Musk had better hop to it.](#)