



Impact of Science

22-24 June, Leiden

**Parallel Session (B.026)**

# Public Engagement & Science Communication



Impact of Science

22-24 June, Leiden

# Paul Manners

*Founding Director, National Co-ordinating  
Centre for Public Engagement (NCCPE), United Kingdom*

# Public engagement and science communication

*What are the obstacles and opportunities of (social) media in bridging the communication between science and society?*

**Paul Manners (Chair)** Founding Director, National Co-ordinating Centre for Public Engagement, United Kingdom

**Ger Hanley** Founder of Write Fund, Republic of Ireland

**Dariusz Aksamit** Head of Council of March for Science Foundation, Poland

## Current public support



More than half of people say they are “interested in science, but have no strong connection to it”



Younger people are less likely to feel that science will enhance the UK’s competitive edge, or that research drives economic growth

From our focus groups in May 2022:

**“We’ve been doing scientific research for ages and it’s not helped”**

**“I think the majority of people would be much happier”** – responding to a scenario where the Government halves its target for R&D investment, to fund other priorities

A large crowd of people is gathered outdoors, likely at a public event or protest. In the foreground, a man with a beard and sunglasses looks towards the camera. To his right, a woman with blonde hair and sunglasses looks off to the side. In the background, a man with sunglasses and a woman with sunglasses are visible. The overall atmosphere appears to be one of a busy public gathering.

 Rationalist Society

**DON'T LIKE SCIENCE?**

*Give us back your  
phone, microwave and  
freezer. you philistines*

People  
who  
think  
like

# SCIENTISTS

Don't accept everything without

? **QUESTION** THEY  
NEED  
EVIDENCE

UNDERSTAND THAT

---

## KNOWLEDGE

IS IMPORTANT

HAVE  
A SENSE  
OF

### WONDER



& **Curiosity**

D  
R  
I  
V  
E

REAL



### PROGRESS

AND  
SEEK

### TRUTH

---

Are not afraid to

**THINK**  
 **hard**

---

**THE ONLY REASON I DONT LIKE  
SCIENCE IS THE ARROGANCE IN  
SOME PEOPLE I SEE WHO FEEL LIKE  
THEY'RE ON SOME PEDESTAL**

**JUST BECAUSE YOU BELIEVE IN SOMETHING  
THAT HAS BEEN PROVED BY SCIENCE  
DOESN'T MAKE YOU SPECIAL, EVERYONE IN  
GENERAL SHOULD BE MORE HUMBLE**





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Ger Hanley

*Founder of Write Fund, Republic of Ireland*





# Impact of Science

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Due to copyright reasons, the speaker has asked for her slides to not be shared



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# Dariusz Aksamit

*Head of Council of March for Science Foundation,  
Poland*

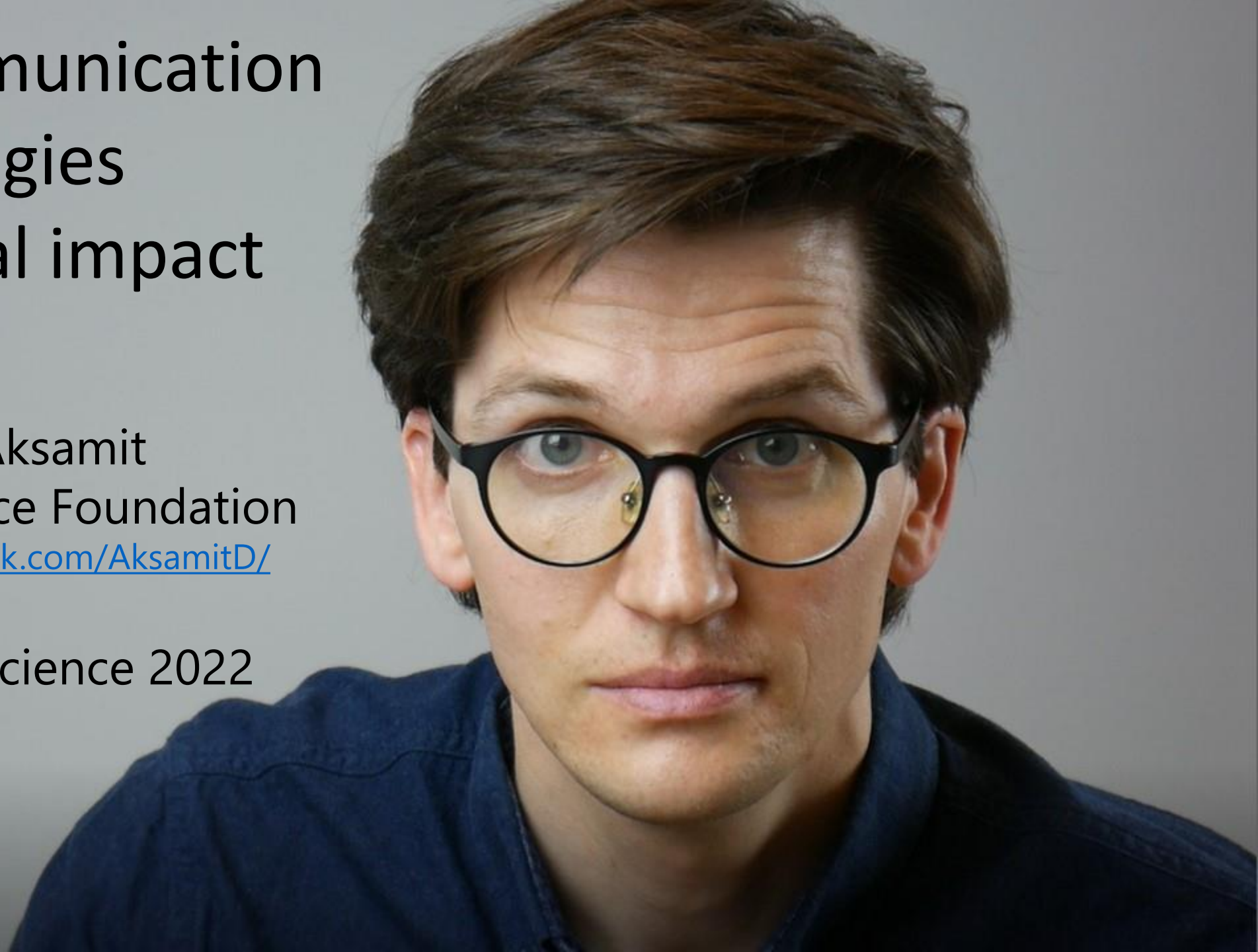
# Better communication strategies for societal impact

Dariusz Aksamit

March for Science Foundation

<https://www.facebook.com/AksamitD/>

AESIS Impact of Science 2022



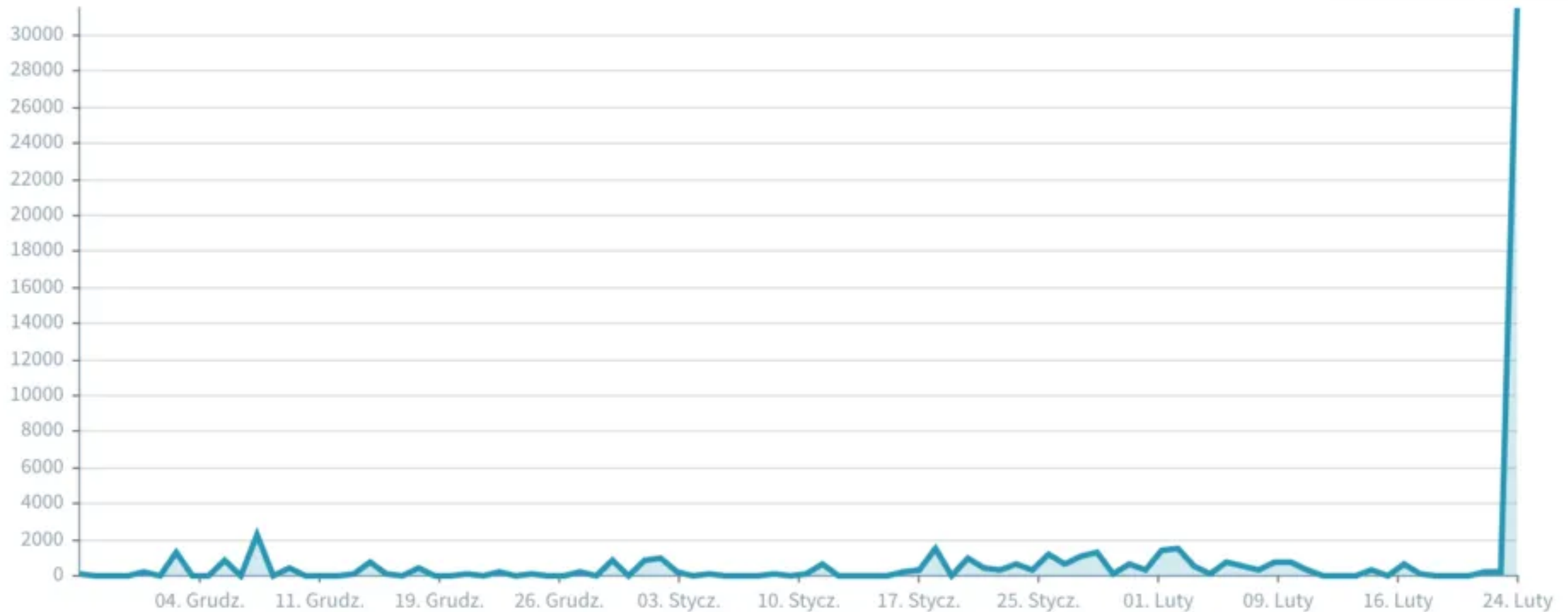
?

# Średnia liczba wyświetleń w naszym portalu

% wartości bazowej

2022-02-24

■ Liczba wyświetleń **31525%**



# Średnia liczba wyświetleń w naszym portalu

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# The Lugol's solution



I. A.																	VIII. A.
1 1,008* <b>H</b> hidrogén											2 4,003 <b>He</b> hélium						
II. A.												13 III. A.	14 IV. A.	15 V. A.	16 VI. A.	17 VII. A.	
3 6,94* <b>Li</b> lítium	4 9,012 <b>Be</b> berillium											5 10,81* <b>B</b> bór	6 12,01* <b>C</b> szén	7 14,01* <b>N</b> nitrogén	8 16,00* <b>O</b> oxigén	9 19,00 <b>F</b> fluor	10 20,18 <b>Ne</b> neon
11 22,99 <b>Na</b> nátrium	12 24,31* <b>Mg</b> magnézium	3 III. B.	4 IV. B.	5 V. B.	6 VI. B.	7 VII. B.	8	9 VIII. B.	10	11 I. B.	12 II. B.	13 26,98 <b>Al</b> alumínium	14 28,09* <b>Si</b> szilícium	15 30,97 <b>P</b> foszfor	16 32,06* <b>S</b> kén	17 35,45* <b>Cl</b> klór	18 39,95 <b>Ar</b> argon
19 39,10 <b>K</b> kálium	20 40,08 <b>Ca</b> kalcium	21 44,96 <b>Sc</b> szkandium	22 47,87 <b>Ti</b> titán	23 50,94 <b>V</b> vanádium	24 52,00 <b>Cr</b> króm	25 54,94 <b>Mn</b> mangán	26 55,85 <b>Fe</b> vas	27 58,93 <b>Co</b> kobalt	28 58,69 <b>Ni</b> nikkel	29 63,55 <b>Cu</b> réz	30 65,38* <b>Zn</b> cink	31 69,72 <b>Ga</b> gallium	32 72,63 <b>Ge</b> germánium	33 74,92 <b>As</b> arzén	34 78,97* <b>Se</b> szelén	35 79,90* <b>Br</b> bróm	36 83,80 <b>Kr</b> kripton
37 85,47 <b>Rb</b> rubídium	38 87,62 <b>Sr</b> stroncium	39 88,91 <b>Y</b> ittrium	40 91,22 <b>Zr</b> cirkónium	41 92,91 <b>Nb</b> nióbbium	42 95,95* <b>Mo</b> molibdén	43 [98] <b>Tc</b> technécium	44 101,1 <b>Ru</b> ruténium	45 102,9 <b>Rh</b> ródium	46 106,4 <b>Pd</b> palládium	47 107,9 <b>Ag</b> ezüst	48 112,4 <b>Cd</b> kadmium	49 114,8 <b>In</b> indium	50 118,7 <b>Sn</b> ón	51 121,8 <b>Sb</b> antimon	52 127, <b>Te</b> tellúr	53 126,9 <b>I</b> jód	54 131,3 <b>Xe</b> xenon
55 132,9 <b>Cs</b> cézium	56 137,3 <b>Ba</b> bárium	57-71	72 178,5 <b>Hf</b> hafnium	73 180,9 <b>Ta</b> tantál	74 183,8 <b>W</b> volfrám	75 186,2 <b>Re</b> rénium	76 190,2 <b>Os</b> ozmium	77 192,2 <b>Ir</b> íridium	78 195,1 <b>Pt</b> platina	79 197,0 <b>Au</b> arany	80 200,6 <b>Hg</b> higany	81 204,4* <b>Tl</b> tallium	82 207,2 <b>Pb</b> ólom	83 209,0 <b>Bi</b> bizmut	84 [209] <b>Po</b> polónium	85 [210] <b>At</b> asztácium	86 [222] <b>Rn</b> radon
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89 [227] <b>Ac</b> aktínium	90 232,0 <b>Th</b> tórió	91 231,0 <b>Pa</b> protaktínium	92 238,0 <b>U</b> urán	93 [237] <b>Np</b> neptúnium	94 [244] <b>Pu</b> plutónium	95 [243] <b>Am</b> amerícium	96 [247] <b>Cm</b> kúrium	97 [247] <b>Bk</b> berkélió	98 [251] <b>Cf</b> kalifornium	99 [252] <b>Es</b> einsteinium	100 [257] <b>Fm</b> fermium	101 [258] <b>Md</b> mendelévium	102 [259] <b>No</b> nobélió	103 [266] <b>Lr</b> laurencium



## Średnia liczba wyświetleń w naszym portalu

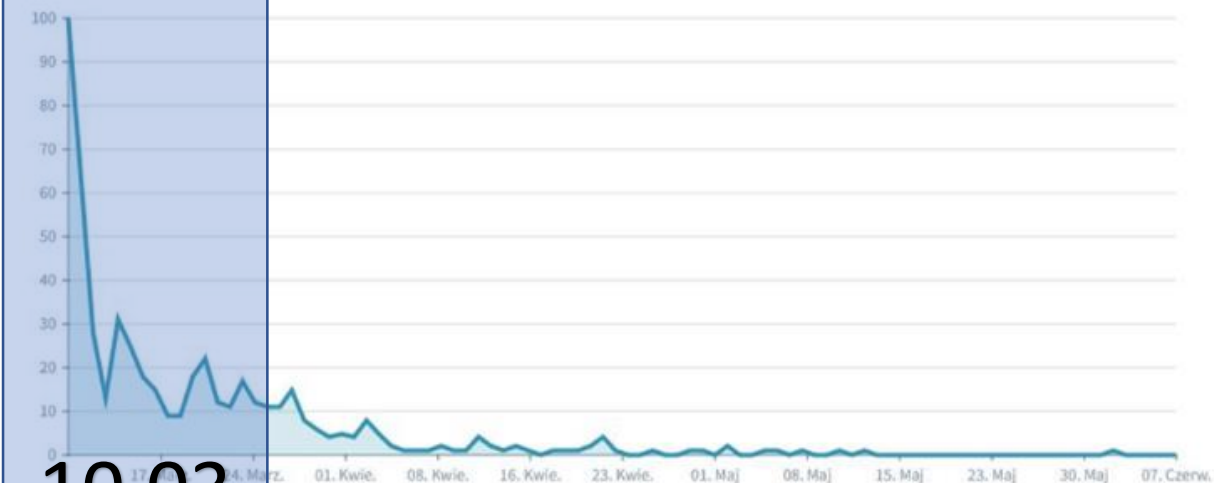
% wartości bazowej



24.02  
2022

## Średnia liczba wyświetleń w naszym portalu

% wartości bazowej



10.03  
2022

## Wystąpienie sprzedaży w aptekach

% aptek w których danego dnia była dziennie min. 1 sprzedaż



## Wystąpienie sprzedaży w aptekach

% aptek w których danego dnia była dziennie min. 1 sprzedaż





■ Exclusion zone

BELARUS



○ Kiev

UKRAINE



RUSSIA

100km  
100miles



Military vehicles moving along road





Russians + Chernobyl  
=  
very very very  
bad memories...



Foto: PAP/Krzysztof Sitek



*Reuters/Daniel Wallis /Agencia FORUM*



18,5 milions doses  
95% of children

Everyone knows  
that Lugols solution  
protects from radiation!

Everyone knows  
that Lugol's solution  
protects from radiation!



But this is not true!!!



Massive prophylaxis operation  
was NOT combined  
with massive education

# In 1986.....

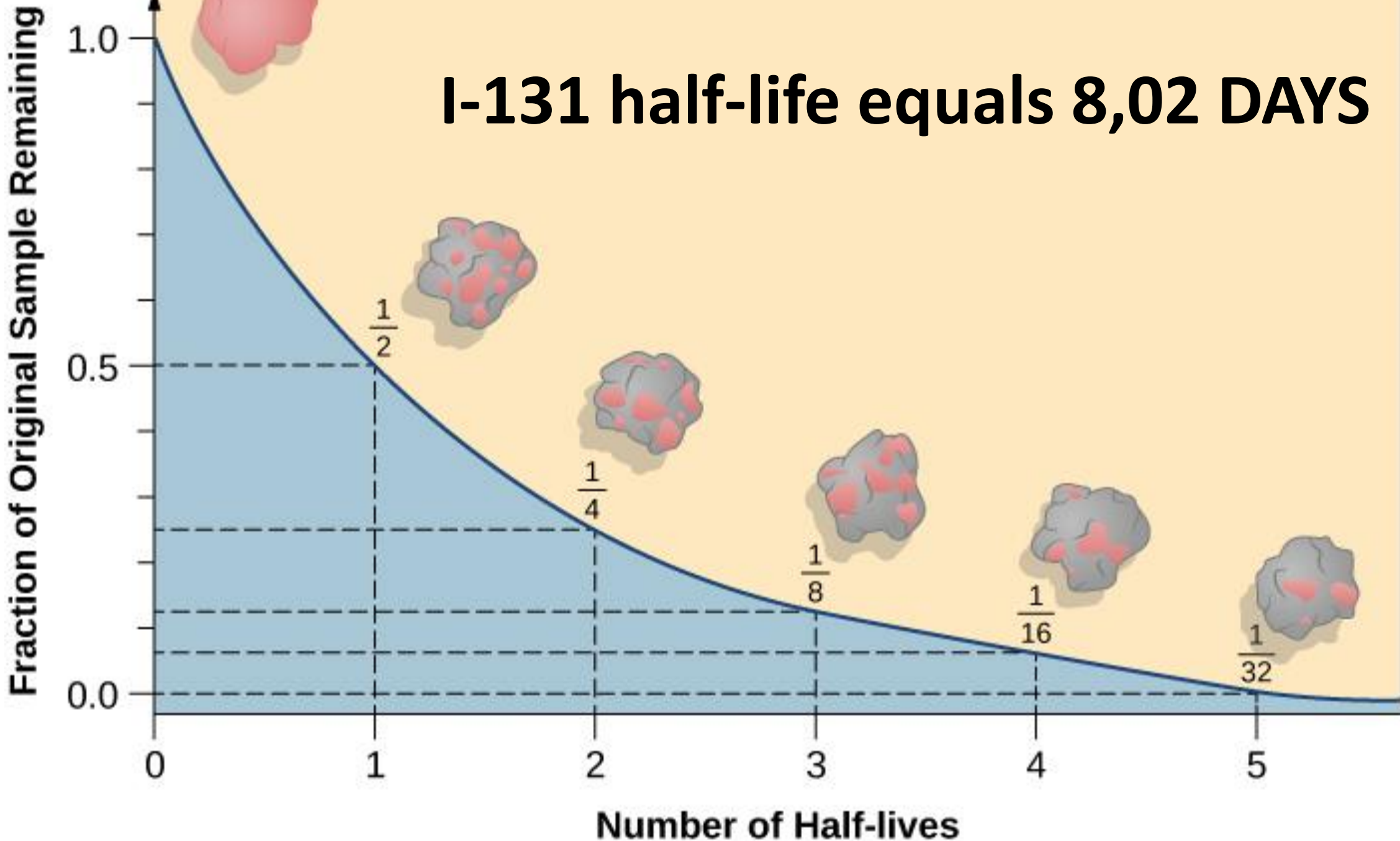
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**I-131 half-life equals 8,02 DAYS**



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Massive prophylaxis operation  
was NOT combined  
with massive education

...so millions of people have STRONG (but FALSE!)  
„memories”

that Lugol's solution protects from radiation in general

And this is the result – day when Russians took over Chernobyl Exclusion Zone with virtually 0 atoms of I-131 left...

2022-02-24  
Liczba wyświetleń 31525%





# Response



As a group of radiation experts,  
we immediately posted an offer  
for journalist to consult on this topic,  
giving basic informations to disseminate

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## Science Advocates Association

Building community  
of experts  
Non-political



## March for Science Foundation (Poland)

Building relations  
with a society  
Public engagement

# „Science & Media Congress” since 2018



# „Science in media” closed group for journalists and scientistists / science communicators



Grupa strony Centrum Nauki Kopernik

## Rzecznicy Nauki - nauka w mediach

🔒 Grupa Prywatna · 312 członków grupy



👤 Dołączono ▾

+ Zaproś



Informacje

Dyskusja

Ogłoszenia

Pokoje

Tematy

Członkowie

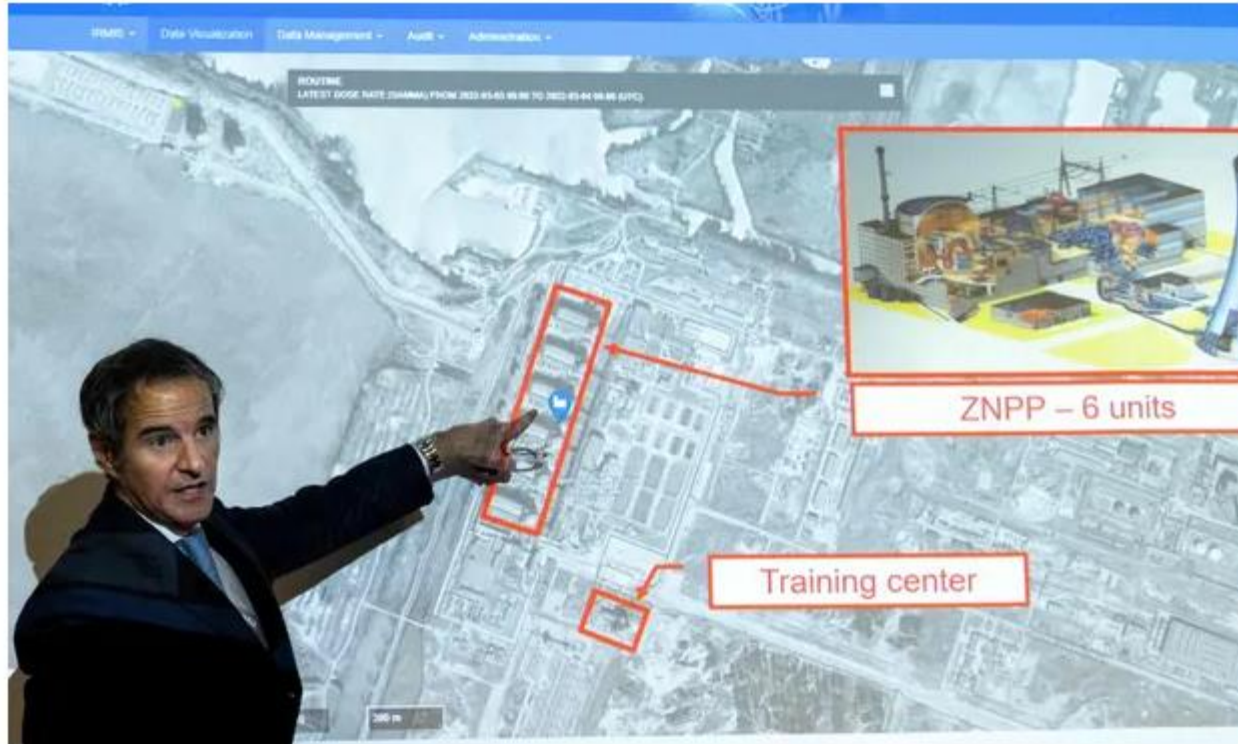
Więcej ▾



# 'Grave concern' as Ukraine Zaporizhzhia nuclear plant under Russian orders

<https://www.theguardian.com/world/2022/mar/06/ukraine-zaporizhzhia-nuclear-plant-staff-under-russian-orders>

**International Atomic Energy Agency says Russian military orders of staff at nuclear plant violate international safety protocols**

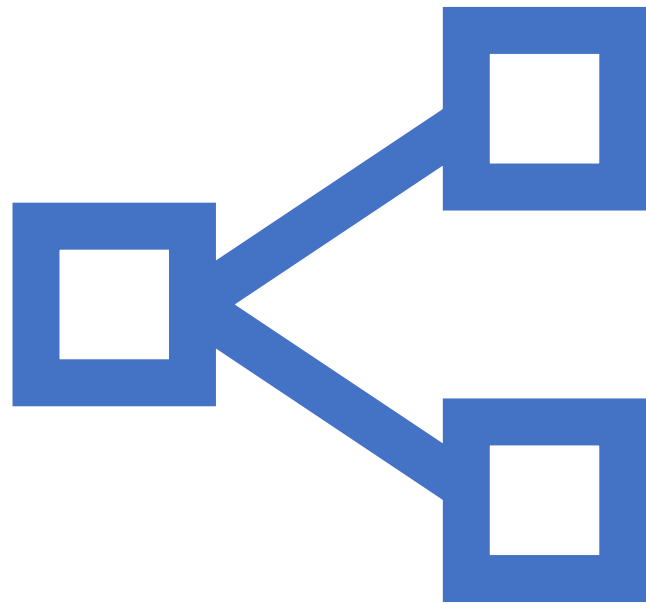


📷 Rafael Grossi, director general of IAEA, points on a map of Zaporizhzhia nuclear power plant at press conference in Vienna, Austria on 4 March. Photograph: Joe Klamar/AFP/Getty Images

Staff at Ukraine's Zaporizhzhia nuclear power plant are being told what to do by the Russian military commander who seized the site last week, in violation of international safety protocols.

We established non-official and fast communication channel – by Messenger. Unfortunately it was used a few times more...

# Conclusion 1



**PREPAREDNESS:**  
building and maintaining  
a strong, friendly  
and trustworthy  
relationship  
with journalist is crucial.



Different science communicators  
used their social media channels  
to calm people down

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# Conclusion 2a

Social media are great  
for crisis communication  
thanks to time of reactions,  
much faster than  
official agencies  
(though IAEA reacted greatly!)

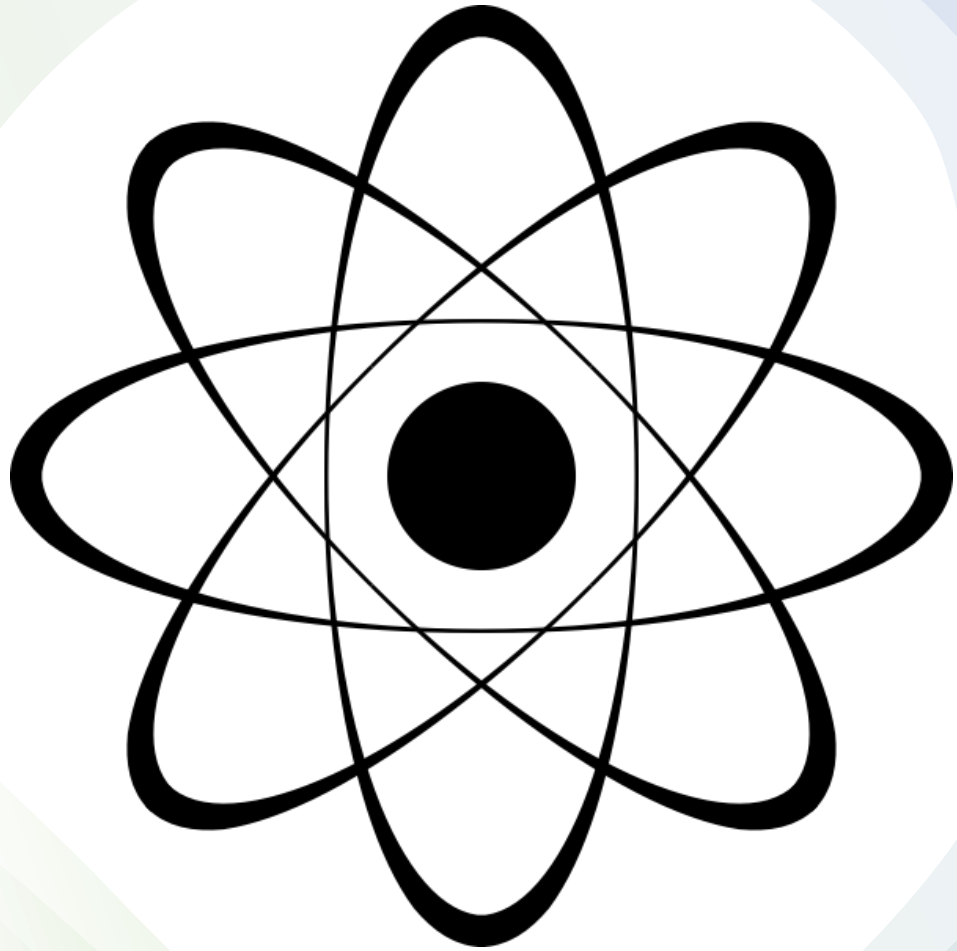


# Conclusion 2b



We need more  
**SCIENCE  
INFLUENCERES**  
!

# Conclusion 3



It's important to build your own narrative:)

Some "green" politics tried to use those stories to foster a black PR of NPP, though we were arguing just the opposite.

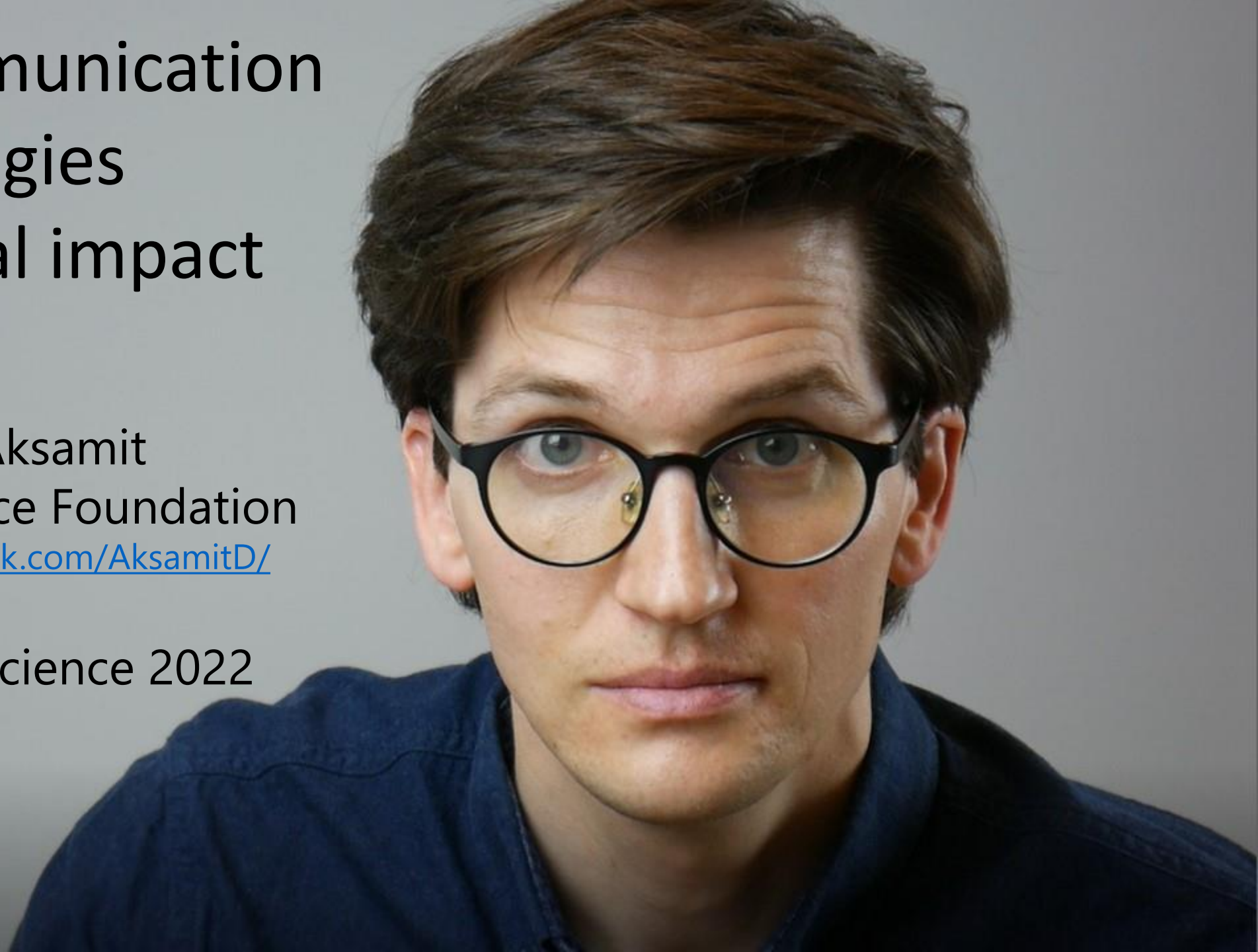
# Better communication strategies for societal impact

Dariusz Aksamit

March for Science Foundation

<https://www.facebook.com/AksamitD/>

AESIS Impact of Science 2022



# Public engagement and science communication

*What are the obstacles and opportunities of (social) media in bridging the communication between science and society?*

- What's the problem?
- What can we do about it?

## Next up

13.00	Lunch break	2nd Floor
14.00	Plenary Closing Panel	C131
15.30	Closing Reception	2nd Floor

## Recommendation

### Community Engagement & Citizen Science

*“We need to move beyond citizen science as a methodology towards a collaborative mindset with tangible mutual benefits. Diversity, equity and inclusion in early stages of the process can value and integrate multiple community knowledge cultures to achieve a sustainable impact aligned with societal needs ”*