

**Dataset of the Doctoral Dissertation “The Energy to Come: Promises, Imaginaries and Ecology of Nuclear Fusion”  
by Alessio Giacometti, PhD in Social Sciences [37<sup>th</sup> Cycle, 2021/2024] at the University of Padova (Italy)**

Level of analysis, methods and sources	Sample
<p><b>How fusion is popularised</b></p> <p>Qualitative discourse analysis of a selection of fusion-related documentaries, series and feature films</p>	<p><b>15 fusion-related documentaries, series and feature films (from 1976 to 2024)</b></p> <p>A1. Time-Life Multimedia – “Nova” WGBH   Fusion: The Energy Promise by Mick Jackson and Stuard Harris, 1976 [link: <a href="https://archive.org/details/HorizonFusionTheEnergyPromise">https://archive.org/details/HorizonFusionTheEnergyPromise</a>, date accessed: 29/03/2024]</p> <p>A2. King Features – “Nova” WGBH   The End of the Rainbow: Nuclear Fusion, 1979 [link: <a href="https://archive.org/details/NOVAEndoftheRainbow">https://archive.org/details/NOVAEndoftheRainbow</a>, date accessed: 29/03/2024]</p> <p>A3. Max-Planck-Institut für Plasmaphysik   Energy of the Future. Fusion 2100, 17/12/2009 [link: <a href="https://www.youtube.com/watch?v=DEyOniRK_h0">https://www.youtube.com/watch?v=DEyOniRK_h0</a>, date accessed: 05/07/2023]</p> <p>A4. Aung-Thwin and Van Royko – EyeSteelFilm Distribution   Let There be Light, 15/12/2017 [link: <a href="https://vimeo.com/ondemand/ltbl">https://vimeo.com/ondemand/ltbl</a>, date accessed: 09/08/2023]</p> <p>A5. CNBC   Is Nuclear Fusion The Answer To Clean Energy?, 29/10/2019 [link: <a href="https://www.youtube.com/watch?v=vPS-epGPJmg">https://www.youtube.com/watch?v=vPS-epGPJmg</a>, date accessed: 04/08/2023]</p> <p>A6. FuseNet Association   The Easiest Thing Nature Does – An Introduction to Fusion Energy, 25/03/2022 [link: <a href="https://www.youtube.com/watch?v=E5aWnDVD-Uo">https://www.youtube.com/watch?v=E5aWnDVD-Uo</a>, date accessed: 05/07/2023]</p> <p>A7. UKAEA Film   Star Makers: The Energy of Tomorrow, 30/03/2022 [link: <a href="https://www.primevideo.com/detail/0HK62FVLOH6GQOFTGUYX8BCTS/ref=atv_dp_share_cu_r">https://www.primevideo.com/detail/0HK62FVLOH6GQOFTGUYX8BCTS/ref=atv_dp_share_cu_r</a>, date accessed: 05/07/2022]</p> <p>A8. Bloomberg Originals   Why Private Billions Are Flowing Into Fusion, 14/07/2022 [link: <a href="https://www.youtube.com/watch?v=Dp6W7g9no0w">https://www.youtube.com/watch?v=Dp6W7g9no0w</a>, date accessed: 05/07/2023]</p>

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- A9. Real Engineering | A New Way to Achieve Nuclear Fusion: Helion, 17/12/2022  
[link: <https://www.youtube.com/watch?v=bDXXWQxK38&t=6s>, date accessed: 17/02/2024]
- A10. FT Films | Fusion power: how close are we?, 16/01/2023  
[link: <https://www.ft.com/video/33675d10-56bd-4bfe-88a2-a94ce116cca2>, date accessed: 05/07/2023]
- A11. The Franklin Institute | The Road to 2050 – Act 2: Powering The Future, 07/02/2023  
[link: <https://beyond.fi.edu/the-road-to-2050/>, date accessed: 05/07/2023]
- A12. Bloomberg series – The Future with Hannah Fry, Episode 4 | Can Nuclear Fusion Power the Future?, 16/03/2023  
[link: <https://www.bloomberg.com/news/videos/2023-03-16/can-nuclear-fusion-power-the-future-the-future-with-hannah-fry-episode-4>, date accessed: 05/07/2023]
- A13. RAZOR Science Show – CGTN Europe | Are we any closer to recreating the Sun’s energy at ITER?, 16/07/2023  
[link: <https://www.youtube.com/watch?v=IzIDnU2QREU>, date accessed: 28/07/2023]
- A14. Rudaw English – NEXT by Namu Abdulla | Inside a \$20 Billion Effort to Create a Star on Earth, 08/01/2024  
[link: <https://www.youtube.com/watch?v=45q7j8Gaf1I>, date accessed: 16/01/2024]
- A15. Yahoo! Finance – Next | Unlocking fusion, 01/04/2024  
[link: <https://www.youtube.com/watch?v=t2gyMMUyknU>, date accessed: 05/04/2024]

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Level of analysis, methods and sources	Sample
<p><b>How fusion is publicly told by scientists and officials</b></p> <p>Qualitative discourse analysis of ITER’s talks and podcasts</p>	<p><b>11 fusion-related “ITER Talks” (from 2021 to 2023)</b></p> <p>B1. ITER Talks (1)   Introduction to ITER, 23/07/2021 [link: <a href="https://youtu.be/kDaTQsmsjC8?si=At34Am0cdlD3rG4C">https://youtu.be/kDaTQsmsjC8?si=At34Am0cdlD3rG4C</a>, date accessed: 05/07/2023]</p> <p>B2. ITER Talks (2)   The ITER Blanket System, 13/09/2021 [link: <a href="https://youtu.be/-pLdtF0fjRE?si=FZY6Kh4Tc3zSvbjI">https://youtu.be/-pLdtF0fjRE?si=FZY6Kh4Tc3zSvbjI</a>, date accessed: 05/07/2023]</p> <p>B3. ITER Talks (3)   The ITER Magnets, 04/10/2023 [link: <a href="https://youtu.be/j4xYSI3DsFU?si=npJzas8CMMCEPv6z">https://youtu.be/j4xYSI3DsFU?si=npJzas8CMMCEPv6z</a>, date accessed: 05/07/2023]</p> <p>B4. ITER Talks (4)   Vacuum, 13/12/2021 [link: <a href="https://youtu.be/ldoD0K8tZaE?si=qeXwpsoczgLK0cdb">https://youtu.be/ldoD0K8tZaE?si=qeXwpsoczgLK0cdb</a>, date accessed: 05/07/2023]</p> <p>B5. ITER Talks (5)   Machine assembly, 17/01/2022 [link: <a href="https://youtu.be/ZvjqSrQ-tyw?si=EKNquLZmyokuyKq7">https://youtu.be/ZvjqSrQ-tyw?si=EKNquLZmyokuyKq7</a>, date accessed: 05/07/2023]</p> <p>B6. ITER Talks (6)   Tokamak Physics for Nuclear Fusion, 28/02/2022 [link: <a href="https://youtu.be/-sDIp2-MF7w?si=Ze1SHkX-mIBb16jf">https://youtu.be/-sDIp2-MF7w?si=Ze1SHkX-mIBb16jf</a>, date accessed: 05/07/2023]</p> <p>B7. ITER Talks (7)   The ITER Research Plan, How to Reach Q=10, 07/03/2022 [link: <a href="https://youtu.be/zNEK4cvdu9g?si=ceyRMEOaGqVImrX6">https://youtu.be/zNEK4cvdu9g?si=ceyRMEOaGqVImrX6</a>, date accessed: 05/07/2023]</p> <p>B8. ITER Talks (8)   The Tokamak Cooling Water System, 11/04/2023 [link: <a href="https://youtu.be/dN5mgN0ky4E?si=ReCte8-7sctz5g6q">https://youtu.be/dN5mgN0ky4E?si=ReCte8-7sctz5g6q</a>, date accessed: 05/07/2023]</p> <p>B9. ITER Talks (9)   Integrated Control System, 24/10/2023 [link: <a href="https://youtu.be/9c9E52Or0gQ?si=Uk-zJ_ufWny_FQ8">https://youtu.be/9c9E52Or0gQ?si=Uk-zJ_ufWny_FQ8</a>, date accessed: 05/07/2023]</p> <p>B10. ITER Talks (10)   The ITER Test Blanket Module Program, 21/11/2022 [link: <a href="https://youtu.be/y9EMV05Ik80?si=yHxx3s1FjMazFDR2">https://youtu.be/y9EMV05Ik80?si=yHxx3s1FjMazFDR2</a>, date accessed: 05/07/2023]</p> <p>B11. ITER Talks (11)   The Tritium Plant, 13/03/2023 [link: <a href="https://youtu.be/K9hQcD6-Vxo?si=qBFW5gwwtdFpWLCM">https://youtu.be/K9hQcD6-Vxo?si=qBFW5gwwtdFpWLCM</a>, date accessed 05/07/2023]</p>

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**13 fusion-related podcast episodes from “ITER Stories”**

- C1. Season #1 | The big black box on the hill – An introduction  
[link: <https://www.iter.org/podcast/1>, date accessed: 05/07/2023]
- C2. Season #1 | A melting pot of cultures at work  
[link: <https://www.iter.org/podcast/2>, date accessed: 05/07/2023]
- C3. Season #1 | The Sun is our model – A conversation with the ITER Monaco postdocs  
[link: <https://www.iter.org/podcast/3>, date accessed: 05/07/2023]
- C4. Season #1 | The history of ITER  
[link: <https://www.iter.org/podcast/4>, date accessed: 05/07/2023]
- C5. Season #1 | Piercing the puzzle together – A unique in-kind contribution & transportation system  
[link: <https://www.iter.org/podcast/5>, date accessed: 05/07/2023]
- C6. Season #1 | Beyond a reasonable doubt  
[link: <https://www.iter.org/podcast/6>, date accessed: 05/07/2023]
- C7. Season #2 | The women at ITER  
[link: <https://www.iter.org/podcast/7>, date accessed: 05/07/2023]
- C8. Season #2 | Visiting planet ITER  
[link: <https://www.iter.org/podcast/8>, date accessed: 05/07/2023]
- C9. Season #2 | Falling for fusion  
[link: <https://www.iter.org/podcast/9>, date accessed: 05/07/2023]
- C10. Season #2 | ITER robots, connecting as humans  
[link: <https://www.iter.org/podcast/10>, date accessed: 05/07/2023]
- C11. Season #2 | The ITER spouses, a journey of transformation  
[link: <https://www.iter.org/podcast/11>, date accessed: 05/07/2023]
- C12. Season #2 | Narrating a giant  
[link: <https://www.iter.org/podcast/12>, date accessed: 28/07/2023]
- C13. Season #3 | Future stars at ITER’s private fusion workshop  
[link: <https://www.iter.org/podcast/13>, date accessed: 05/06/2024]

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Level of analysis, methods and sources	Sample
<p><b>How fusion is publicly told by scientists and officials</b></p> <p>Qualitative discourse analysis of fusion-related TED talks</p>	<p><b>21 fusion-related TED talks in English (from 2009 to 2024)</b></p> <p>D1. Steven Cowley   Fusion is energy’s future, 22/12/2009 [link: <a href="https://www.youtube.com/watch?v=S6BLFdBfgfU">https://www.youtube.com/watch?v=S6BLFdBfgfU</a>, date accessed: 05/07/2023]</p> <p>D2. Jason Cassibry   Fusion Propulsion for Exploration of the Solar System, 19/09/2012 [link: <a href="https://www.youtube.com/watch?v=v1_r8_OSbRo">https://www.youtube.com/watch?v=v1_r8_OSbRo</a>, date accessed: 18/01/2024]</p> <p>D3. Dennis Whyte   Bringing a Star to Earth for Energy, 18/03/2013 [link: <a href="https://www.youtube.com/watch?v=1RTJabAxJmo">https://www.youtube.com/watch?v=1RTJabAxJmo</a>, date accessed: 18/01/2024]</p> <p>D4. Andrew Zwicker   Fusion Energy: Utopian or Practical?, 27/06/2013 [link: <a href="https://www.youtube.com/watch?v=PtSJH_UiRdk">https://www.youtube.com/watch?v=PtSJH_UiRdk</a>, date accessed: 18/01/2024]</p> <p>D5. Michel Laberge   How synchronized hammer strikes could generate nuclear fusion, 22/04/2014 [link: <a href="https://www.youtube.com/watch?v=2m9kC1yRnLQ">https://www.youtube.com/watch?v=2m9kC1yRnLQ</a>, date accessed: 02/05/2024]</p> <p>D6. Michel Laberge   Nuclear fusion within reach, 28/08/2014 [link: <a href="https://www.youtube.com/watch?v=b-LCfx9v4YQ">https://www.youtube.com/watch?v=b-LCfx9v4YQ</a>, date accessed: 05/07/2023]</p> <p>D7. Derek Sutherland   The Energy Crisis is Over!, 29/06/2016 [link: <a href="https://www.youtube.com/watch?v=rAODrTHZSI8">https://www.youtube.com/watch?v=rAODrTHZSI8</a>, date accessed: 18/01/2024]</p> <p>D8. Peter O’Shea   Magnetized Target Fusion, 18/11/2016 [link: <a href="https://www.youtube.com/watch?v=VX9a932tWB0">https://www.youtube.com/watch?v=VX9a932tWB0</a>, date accessed: 18/01/2024]</p> <p>D9. Thomas Klinger   New Machines for Fusion Research, 09/05/2017 [link: <a href="https://www.youtube.com/watch?v=cQ3PWXoYIoE">https://www.youtube.com/watch?v=cQ3PWXoYIoE</a>, date accessed: 18/01/2024]</p> <p>D10. Melanie Windridge   Fusion energy and why it is important to chase the impossible, 19/03/2018 [link: <a href="https://www.youtube.com/watch?v=gtmqemcErqY">https://www.youtube.com/watch?v=gtmqemcErqY</a>, date accessed: 05/07/2023]</p>

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- D11. Michel Claessens | Dreaming the future of Energy, 14/01/2019  
[link: <https://www.youtube.com/watch?v=XsEoeFetmvk>, date accessed: 05/07/2023]
- D12. Melanie Windridge | A sustainable energy future: is funding & fear holding us back?, 18/01/2019  
[link: <https://www.youtube.com/watch?v=S14FWF8nISk>, date accessed: 05/07/2023]
- D13. David Maisonnier | The energy limits of our planet, 05/04/2019  
[link: [https://www.youtube.com/watch?v=2\\_BJ5if1BuY](https://www.youtube.com/watch?v=2_BJ5if1BuY), date accessed: 31/08/2023]
- D14. Mark Henderson | The Dawn of the Fusion Age, 11/07/2019  
[link: <https://www.youtube.com/watch?v=KlxPI6LnyFc>, date accessed: 05/07/2023]
- D15. Nick Walkden | Delivering Fusion Energy, 07/01/2021  
[link: <https://www.youtube.com/watch?v=f0KofSsjOak>, date accessed 05/07/2023]
- D16. Tammy Ma | Bringing the Stars to Earth, 31/03/2022  
[link: <https://www.youtube.com/watch?v=XZB0ua4UXj8>, date accessed: 05/07/2023]
- D17. Richard Pearson | Fusion Energy: Getting Closer?, 28/11/2022  
[link: [https://www.youtube.com/watch?v=qh\\_amVhNq9E](https://www.youtube.com/watch?v=qh_amVhNq9E), date accessed: 05/07/2023]
- D18. Joe Milnes | Entering the Fusion Energy Delivery Era, 10/01/2023  
[link: <https://www.youtube.com/watch?v=Dfjkl0-DkJM>, date accessed: 05/07/2023]
- D19. Tony Donn e | Why should we make a star on Earth?, 24/01/2023  
[link: <https://m.youtube.com/watch?v=Juf-RvxI0Ls&feature=youtu.be>, date accessed: 05/07/2023]
- D20. Kian Rahbarnia | Man-made Nuclear Fusion, 17/04/2023  
[link: <https://www.youtube.com/watch?v=CbNsHBbrpxmU>, date accessed: 05/07/2023]
- D20. Kjetil Skaugset | Shaping the future of energy: Fusion Energy—a potential game changer, 09/01/2024  
[link: [https://www.youtube.com/watch?v=U7Z9z6z\\_v8w](https://www.youtube.com/watch?v=U7Z9z6z_v8w), date accessed: 02/05/2024]
- D21. Tammy Ma | The secret force for limitless energy? Lasers, 01/08/2024  
[link: <https://www.youtube.com/watch?v=15azMXvBfaw>, 02/05/2024]

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Level of analysis, methods and sources	Sample
<p><b>How fusion is publicly told by scientists and officials</b></p> <p>Qualitative discourse analysis of fusion-related podcasts</p>	<p><b>19 fusion-related podcast episodes (from 2018 to 2024)</b></p> <p>E1. Titans of Nuclear podcast – Ep. 59   Bernard Bigot, 17/08/2018 [link: <a href="https://www.titansofnuclear.com/experts/BernardBigot">https://www.titansofnuclear.com/experts/BernardBigot</a>, date accessed: 02/10/2023]</p> <p>E2. Titans of Nuclear podcast – Ep. 123   Dennis Whyte, 20/11/2018 [link: <a href="https://www.titansofnuclear.com/experts/DennisWhyte">https://www.titansofnuclear.com/experts/DennisWhyte</a>, date accessed: 02/10/2023]</p> <p>E3. Titans of Nuclear podcast – Ep. 124   Bob Mumgaard, 21/11/2018 [link: <a href="https://www.titansofnuclear.com/experts/BobMumgaard">https://www.titansofnuclear.com/experts/BobMumgaard</a>, date accessed: 02/10/2023]</p> <p>E4. Starlords FIA podcast – Ep. 1   Scott Hsu, February 2019 [link: <a href="https://soundcloud.com/fia_starlords">https://soundcloud.com/fia_starlords</a>, date accessed: 23/08/2023]</p> <p>E5. Titans of Nuclear podcast – Ep. 252   Scott Hsu, 12/05/2020 [link: <a href="https://www.titansofnuclear.com/experts/ScottHsu">https://www.titansofnuclear.com/experts/ScottHsu</a>, date accessed: 02/10/2023]</p> <p>E6. Lex Friedman podcast – Ep. 112   Ian Hutchinson: Nuclear Fusion, Plasma Physics, and Religion, 29/07/2020 [link: <a href="https://www.youtube.com/watch?v=pDSEjaDCtOU">https://www.youtube.com/watch?v=pDSEjaDCtOU</a>, date accessed: 09/02/2024]</p> <p>E7. Decouple podcast   The Nuclear Fusion Energy Delusion?, 06/01/2021 [link: <a href="https://otter.ai/u/H2zqcRkM1DjkSE9o7XQgzS9LRLI">https://otter.ai/u/H2zqcRkM1DjkSE9o7XQgzS9LRLI</a>, date accessed: 09/02/2024]</p> <p>E8. IAEA – Nuclear Explained podcast   Is Fusion Energy Possible?, 28/10/2022 [link: <a href="https://www.iaea.org/podcasts/nuclear-explained-is-fusion-energy-possible">https://www.iaea.org/podcasts/nuclear-explained-is-fusion-energy-possible</a>, date accessed: 04/10/2023]</p> <p>E9. Titans of Nuclear podcast – Ep. 371   Derek Sutherland, 16/11/2022 [link: <a href="https://www.titansofnuclear.com/experts/DerekSutherland">https://www.titansofnuclear.com/experts/DerekSutherland</a>, date accessed: 02/10/2023]</p> <p>E10. The Power Hungry podcast by Robert Bryce   Ray Rothrock, 20/12/2022 [link: <a href="https://www.youtube.com/watch?v=QKVxzX1Y0t4">https://www.youtube.com/watch?v=QKVxzX1Y0t4</a>, date accessed: 09/02/2024].</p>



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- E11. Decouple podcast | What’s all the fuss about Fusion?, 03/01/2023  
[link: [https://youtu.be/pVbqC\\_FG89A?si=99XK061X3unoqW04](https://youtu.be/pVbqC_FG89A?si=99XK061X3unoqW04), date accessed: 09/02/2024]
- E12. Titans of Nuclear podcast – Ep. 378: Tammy Ma, 18/01/2023  
[link: <https://www.titansofnuclear.com/experts/TammyMa>, date accessed: 02/10/2023]
- E13. Lex Fridman podcast – Ep. 353 | Dennis Whyte: Nuclear Fusion and the Future of Energy, 21/01/2023  
[link: <https://www.youtube.com/watch?v=aJoRMFWn2Jk>, date accessed: 12/01/2024]
- E14. Bloomberg Businessweek podcast | Harnessing the Power of the Stars, 24/01/2023  
[link: <https://www.bloomberg.com/news/audio/2023-01-24/harnessing-the-power-of-the-stars-podcast>, date accessed: 05/07/2023]
- E15. The Economist podcast – Babbage | The race for nuclear fusion goes private, 29/03/2023  
[link: <https://player.fm/series/the-economist-podcasts/babbage-the-race-for-nuclear-fusion-goes-private>, date accessed: 05/07/2023]
- E16. Future Tech And Foresight podcast – Ep. 106 | When Will We Have Fusion Energy?, 17/04/2023  
[link: <https://www.youtube.com/watch?v=xX2tLPtgZWk>, date accessed: 05/07/2023]
- E17. Titans of Nuclear podcast – Ep. 403 | Michl Binderbauer, 22/05/2023  
[link: <https://www.titansofnuclear.com/experts/MichlBinderbauer>, date accessed: 02/10/2023]
- E18. Faster, Please! – Ep. 30 | A Conversation with Fusion Industry Association CEO Andrew Holland, 30/06/2023  
[link: <https://www.aci.org/multimedia/faster-please-the-podcast-30-a-conversation-with-fusion-industry-association-ceo-andrew-holland/>, date accessed: 23/08/2023]
- E19. PBS Energy Switch – Season 4, Ep. 1 | Nuclear Fusion, 01/04/2024  
[link: <https://www.pbs.org/video/nuclear-fusion-igmexv/>, date accessed: 24/04/2024]



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Level of analysis, methods and sources	Sample
<p><b>How fusion is publicly told by scientists and officials</b></p> <p>Qualitative discourse analysis of fusion-related talks, webinar and conferences</p>	<p><b>23 fusion-related talks, webinar and conferences (from 2015 to 2024)</b></p> <p>F1. The Royal Institution   The Extreme World of Ultra Intense Lasers – with Kate Lancaster, 10/06/2015 [link: <a href="https://www.youtube.com/watch?v=hcGgaa2mFc4">https://www.youtube.com/watch?v=hcGgaa2mFc4</a>, date accessed: 12/03/2024]</p> <p>F2. The Royal Institution   Fusion: How to Put the Sun in a Magnetic Bottle – with Ian Chapman, 08/06/2016 [link: <a href="https://www.youtube.com/watch?v=zn1SJOPgewo">https://www.youtube.com/watch?v=zn1SJOPgewo</a>, date accessed: 09/02/2024]</p> <p>F3. Hello Tomorrow   How close are we to clean fusion energy?, 11/04/2019 [link: <a href="https://www.youtube.com/watch?v=AmDef7AThGk">https://www.youtube.com/watch?v=AmDef7AThGk</a>, date accessed: 05/07/2023]</p> <p>F4. Videowissen   Fusion research: ITER the next steps, 18/12/2019 [link: <a href="https://www.youtube.com/watch?v=keM6m-WQrB0">https://www.youtube.com/watch?v=keM6m-WQrB0</a>, date accessed: 11/10/2023]</p> <p>F5. Livermore Lab Events – HEDS   SPARC and the high-field path to fusion energy, 12/08/2021 [link: <a href="https://www.youtube.com/watch?v=uKwWGUT8rCw">https://www.youtube.com/watch?v=uKwWGUT8rCw</a>, date accessed: 05/07/2023]</p> <p>F6. IAEA, Building Stars – Breakthroughs in Fusion R&amp;D Webinar Series, Ep. 1  JET, NIF and SPARC, 24/03/2022 [link: <a href="https://youtu.be/5KkVGASnPJ0?si=fzBAS8i8DCFPL17H">https://youtu.be/5KkVGASnPJ0?si=fzBAS8i8DCFPL17H</a>, date accessed: 05/07/2023]</p> <p>F7. ICTP STI Colloquium   High-field stellarators with liquid metal walls, 08/07/2022 [link: <a href="https://www.youtube.com/watch?v=ogqUkUBgmFY">https://www.youtube.com/watch?v=ogqUkUBgmFY</a>, date accessed: 05/07/2023]</p> <p>F8. IAEA, Building Stars – Breakthroughs in Fusion R&amp;D Webinar Series, Ep. 2   EAST, W7-X and MAST-U, 14/07/2022 [link: <a href="https://youtu.be/y5uxU-AJ8oQ?si=Y1NfEiClweQEY2Ok">https://youtu.be/y5uxU-AJ8oQ?si=Y1NfEiClweQEY2Ok</a>, date accessed: 05/07/2023]</p> <p>F9. Harvard Science Book Talks and Research Lectures   Alain Bécoulet, “Star Power: ITER and the International Quest for Fusion Energy”, 01/08/2022 [link: <a href="https://www.youtube.com/watch?v=W1LVruDIBMs">https://www.youtube.com/watch?v=W1LVruDIBMs</a>, date accessed: 19/01/2024]</p> <p>F10. IAEA, Building Stars – Breakthroughs in Fusion R&amp;D Webinar Series, Ep. 3  LHD, KSTAR, Advanced Projects, 14/12/2022 [link: <a href="https://youtu.be/795cFEJsfcc?si=dfxmD_yYM6G651xS">https://youtu.be/795cFEJsfcc?si=dfxmD_yYM6G651xS</a>, date accessed: 05/07/2023]</p> <p>F11. CERN Colloquium   Prospects for Fusion Energy using Magnetic Confinement, 15/12/2022 [link: <a href="https://indico.cern.ch/event/1204533/">https://indico.cern.ch/event/1204533/</a>, date accessed: 05/07/2023]</p>

**Dataset of the Doctoral Dissertation “The Energy to Come: Promises, Imaginaries and Ecology of Nuclear Fusion”  
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- F12. ZERO | Renaissance Fusion – Francesco Volpe, Founder & CEO, 23/12/2022  
[link: <https://www.youtube.com/watch?v=mqL2kmz2dOI>, date accessed: 05/07/2023]
- F13. IAEA, Building Stars – Breakthroughs in Fusion R&D Webinar Series, Ep. 4 | NIF special, 19/01/2023  
[link: [https://youtu.be/H4NQOK62Wi0?si=ISJ6j1vFrOTIJV\\_I](https://youtu.be/H4NQOK62Wi0?si=ISJ6j1vFrOTIJV_I), date accessed: 05/07/2023]
- F14. IAEA, Building Stars – Breakthroughs in Fusion R&D Webinar Series, Ep. 5 | TAE Technologies and General Fusion, 27/04/2023 [link: <https://youtu.be/Zpx2QgJYVaY?si=IBgtpWok9VTzEIV1>, date accessed: 05/07/2023]
- F15. Videowissen | 5 myths about nuclear fusion 2023, 30/04/2023  
[link: <https://www.youtube.com/watch?v=ILrPfGisiTE>, date accessed: 11/10/2023]
- F16. The Royal Institution | Could nuclear fusion energy power the future? – with Melanie Windridge, 15/06/2023  
[link: <https://www.youtube.com/watch?v=zYjiNj9E4h8>, date accessed: 27/09/2023]
- F17. Videowissen | Nuclear Fusion: Problems at the ITER Research Project and Current Solutions, 09/07/2023  
[link: <https://www.youtube.com/watch?v=nanxV5mpwew>, date accessed: 11/10/2023]
- F18. US Council on Foreign Relations (CFR) | Nuclear Fusion and the Future of Energy, 26/09/2023  
[link: <https://www.cfr.org/event/nuclear-fusion-and-future-energy>, date accessed: 23/04/2024]
- F19. The Royal Institution | The need for fusion – with the UKAEA, 02/01/2024  
[link: [https://www.youtube.com/watch?v=S\\_XZ-nh\\_Be4](https://www.youtube.com/watch?v=S_XZ-nh_Be4), date accessed: 15/01/2024]
- F20. ITER Organization | Fusion Explained: A Lecture for Non Specialists, 18/01/2024  
[link: <https://www.youtube.com/watch?v=wX6ChZLdvZg>, date accessed: 23/01/2024]
- F21. The Royal Institution | The latest developments in fusion energy – with the UKAEA, 16/04/2024  
[link: <https://www.youtube.com/watch?v=j15K7PCiW3Y>, date accessed: 02/05/2024]
- F22. The Royal Institution | The future of fusion – with the UKAEA, 13/08/2024  
[link: <https://youtu.be/cjFsrX5gPKE?si=Whxf3-3Dd97IMWFT>, date accessed: 29/11/2024]
- F23. The Global Energy Association | Pietro Barabaschi on the history and future of the ITER project, 18/10/2024  
[link: <https://youtu.be/f63JYtLznc?si=UPLgZwbcczNQSHKk>, date accessed: 29/11/2024]

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Level of analysis, methods and sources	Sample
<p><b>How fusion is publicly told by scientists and officials</b></p> <p>Qualitative discourse analysis of speeches at institutional events</p>	<p><b>30 fusion-related speeches at institutional events (from 2014 to 2024)</b></p> <p>G1. US Congress Committee on Science, Space, and Technology – Subcommittee on Energy Hearing   Fusion Energy: The World’s Most Complex Energy Project, 11/07/2014 [link: <a href="https://science.house.gov/2014/7//subcommittee-energy-hearing-fusion-energy-world-s-most-complex-energy-project">https://science.house.gov/2014/7//subcommittee-energy-hearing-fusion-energy-world-s-most-complex-energy-project</a>, date accessed: 20/10/2023]</p> <p>G2. UK Parliament – House of Lords Science and Technology Committee   Academics Questioned on Nuclear Fusion Research, 21/07/2015 [link: <a href="https://committees.parliament.uk/committee/193/science-and-technology-committee-lords/news/93417/academics-questioned-on-nuclear-fusion-research/">https://committees.parliament.uk/committee/193/science-and-technology-committee-lords/news/93417/academics-questioned-on-nuclear-fusion-research/</a>, date accessed: 20/10/2023]</p> <p>G3. US Congress Committee on Science, Space, and Technology – Subcommittee on Energy Hearing   An Overview of Fusion Energy Science, 20/04/2016 [link: <a href="https://science.house.gov/2016/4//energy-subcommittee-hearing-overview-fusion-energy-science">https://science.house.gov/2016/4//energy-subcommittee-hearing-overview-fusion-energy-science</a>, date accessed: 20/10/2023]</p> <p>G4. US Congress Committee on Science, Space, and Technology – Subcommittee on Energy Hearing   The Future of US Fusion Energy Research, 06/03/2018 [link: <a href="https://republicans-science.house.gov/2018/3//subcommittee-energy-hearing-future-us-fusion-energy-research-1">https://republicans-science.house.gov/2018/3//subcommittee-energy-hearing-future-us-fusion-energy-research-1</a>, date accessed: 20/10/2023]</p> <p>G5. ITER Organization   ITER Live: Start of Machine Assembly, 28/07/2020 [link: <a href="https://www.youtube.com/watch?v=2-7GyVLKE6A">https://www.youtube.com/watch?v=2-7GyVLKE6A</a>, date accessed: 22/08/2023]</p> <p>G6. US Congress Committee on Science, Space, and Technology – Subcommittee on Energy Hearing   Fostering a New Era of Fusion Energy Research and Technology Development, 17/11/2021 [link: <a href="https://www.youtube.com/live/AA8ZBZBcUmM?si=bFLBXVSyUXJAR84">https://www.youtube.com/live/AA8ZBZBcUmM?si=bFLBXVSyUXJAR84</a>, 17/03/2022]</p> <p>G7. US Senate Committee on Energy &amp; Natural Resources   Senate Energy Committee Holds A Hearing On Fusion Energy, 15/09/2022 [link: <a href="https://www.energy.senate.gov/hearings/2022/9/full-committee-hearing-to-examine-the-federal-government-s-role-in-supporting-the-commercialization-of-fusion-energy">https://www.energy.senate.gov/hearings/2022/9/full-committee-hearing-to-examine-the-federal-government-s-role-in-supporting-the-commercialization-of-fusion-energy</a> and <a href="https://www.youtube.com/watch?v=eFK14ledGms">https://www.youtube.com/watch?v=eFK14ledGms</a>, date accessed: 05/07/2023]</p> <p>G8. UKAEA official   FUSION22 playlist, 25/10/2022 [link: <a href="https://youtube.com/playlist?list=PLSWuib1HHkD_JSCOsP60pxWQkz35bhu6C">https://youtube.com/playlist?list=PLSWuib1HHkD_JSCOsP60pxWQkz35bhu6C</a>, date accessed: 05/07/2023]</p>

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by Alessio Giacometti, PhD in Social Sciences [37<sup>th</sup> Cycle, 2021/2024] at the University of Padova (Italy)**

- G9. UN Climate Change – COP27 | Fusion: Clean Energy for All, 15/11/2022  
[link: <https://www.youtube.com/watch?v=FPbvODcWXXs>, date accessed: 05/07/2023]
- G10. US DoE | Press Conference: Secretary Granholm & DOE leaders Announced Fusion Breakthrough by DoE National Lab, 14/12/2022 [link: <https://www.youtube.com/watch?v=K2ktAL4rGuY>, date accessed: 05/07/2023]
- G11. US DoE | Panel Discussion: Nuclear Fusion Breakthrough, 14/12/2022  
[link: <https://www.youtube.com/watch?v=Cmzep3YaRNI>, date accessed: 05/07/2023]
- G12. World Economic Forum | Reaching for the Stars with Nuclear Fusion, 17/01/2023  
[link: <https://www.weforum.org/events/world-economic-forum-annual-meeting-2023/sessions/reaching-for-the-stars-with-nuclear-fusion>, date accessed: 05/07/2023]
- G13. European Parliament – Panel for the Future of Science and Technology | Workshop “Sustainability and innovative technology for nuclear energy”, 08/02/2023 [link: [https://multimedia.europarl.europa.eu/en/webstreaming/panel-for-future-of-science-and-technology\\_20230208-1400-SPECIAL-STOA](https://multimedia.europarl.europa.eu/en/webstreaming/panel-for-future-of-science-and-technology_20230208-1400-SPECIAL-STOA), date accessed: 05/07/2023]
- G14. National Academies of Science, Engineering and Medicine | Unlocking New Possibilities for Commercial Fusion, 16/02/2023 [link: <https://www.nationalacademies.org/event/02-16-2023/unlocking-new-possibilities-for-commercial-fusion>, date accessed: 05/07/2023]
- G15. Commonwealth Fusion Systems | Sec. Granholm, Sen. Warren, Sen. Markey, Rep. Trahan, Lt. Gov. Driscoll Open CFS Fusion Campus, 22/02/2023 [link: <https://www.youtube.com/watch?v=oF7aj0ZD3L8>, date accessed: 05/07/2023]
- G16. The White House | White House Summit: Developing a Bold Decadal Vision for Commercial Fusion Energy, 17/03/2022 [link: <https://www.youtube.com/watch?v=oUknjLH4HEo>, date accessed: 05/07/2023]
- G17. Berlin Science Week – Embassy of Italy in Germany | Nuclear fusion for a decarbonized future, 22/03/2023  
[link: <https://www.youtube.com/watch?v=G07Ih0T4YLC>, date accessed: 07/11/2023]
- G18. European Parliament – Panel for the Future of Science and Technology | Workshop “Furthering international research cooperation in a fragmented world”, 24/05/2023 [link: <https://fusionforenergy.europa.eu/news/why-international-collaboration-in-research-matters/>, date accessed: 28/07/2023]
- G19. US Congress Committee on Science, Space, and Technology – Subcommittee on Energy Hearing | From Theory to Reality: The Limitless Potential of Fusion Energy, 13/06/2023 [link: [https://science.house.gov/hearings?ContentRecord\\_id=1A693FA1-B7A9-4408-BE83-6253FFB7787D](https://science.house.gov/hearings?ContentRecord_id=1A693FA1-B7A9-4408-BE83-6253FFB7787D), date accessed: 05/07/2023]

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- G20. FuseNet Association | FuseNet Master Event 2023, 23/11/2023  
[link: <https://youtu.be/Z-smkK6Zi9k?si=gL9bw6u5G15OqGbw>, date accessed: 20/12/2023]
- G21. NAKA QST | JT-60SA Inauguration Ceremony, 01/12/2023  
[link: <https://www.youtube.com/watch?v=sZbdDfjrXb8>, date accessed: 05/12/2023]
- G22. Atlantic Council | Global Energy Forum at COP 28, 05/12/2023  
[link: <https://www.youtube.com/watch?v=VmvDizqcIGk>, date accessed: 06/12/2023]
- G23. IAEA Fusion Energy Webinar Series | Fusion Energy at COP28: A promising emerging climate solution, 02/01/2024  
[link: <https://www.youtube.com/watch?v=Xm44wNKWdZ0>, date accessed: 15/01/2024]
- G24. EUROfusion | New Fusion Energy World Record at JET, 08/02/2024  
[link: <https://www.youtube.com/watch?v=tn-nAQe3GM>, date accessed: 09/02/2024]
- G25. European Commission | The EU Blueprint for Fusion Energy, 23/04/2024  
[link: <https://www.youtube.com/watch?v=6AY7807KGJI>, date accessed: 23/04/2024]
- G26. UKAEA official | FUSION24 playlist, 19/06/2024  
[link: <https://www.youtube.com/playlist?list=PLSWuib1HHkD9JKgZi62SkihhXKMYHtz5>, date accessed: 19/06/2024]
- G27. US Congress Committee on Energy and Natural Resources | Full Committee Hearing to Examine Fusion Energy Technology Development, 19/09/2024 [link: [https://www.energy.senate.gov/hearings/2024/9/full-committee-hearing-to?mc\\_cid=d722362adc&mc\\_eid=d381fa726e](https://www.energy.senate.gov/hearings/2024/9/full-committee-hearing-to?mc_cid=d722362adc&mc_eid=d381fa726e), date accessed: 20/09/2024]
- G28. Clean Air Task Force – COP29 | International collaboration: A tool to speed up commercial fusion deployment, 15/11/2024 [link: [https://youtu.be/s\\_DFV9CbGpM?si=ikLBS45xy7pkptdx](https://youtu.be/s_DFV9CbGpM?si=ikLBS45xy7pkptdx), 17/11/2024]
- G29. Clean Air Task Force – COP29 | Fusion 3.0: The combined effect of AI & high performance computing to deploy fusion energy, 18/11/2024 [link: <https://youtu.be/WsBerm0cryI?si=KaHiJZNJEkUz8njp>, 18/11/2024]
- G30. Farnesina | Inaugural ministerial event of the World Fusion Energy Group, 06/19/2024  
[link: <https://www.youtube.com/watch?v=kVNsbnA-DHA>, date accessed: 29/11/2024]

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Level of analysis, methods and sources	Sample
<p><b>How fusion is publicly told by scientists and stakeholders</b></p> <p>Public interviews to fusion scientists and stakeholders available online</p>	<p>H1. TechCrunch+ Investor Surveys   “With \$10T on the line, 6 fusion investors explain why they’re all in” by Tim De Chant, 21/06/2023 [link: <a href="https://techcrunch.com/2023/06/21/fusion-investors-survey/">https://techcrunch.com/2023/06/21/fusion-investors-survey/</a>, date accessed: 01/11/2023]</p> <p>H2. TechCrunch+ Investor Surveys   “7 founders and CEOs discuss fusion power’s most pressing challenges” by Tim De Chant, 24/08/2023 [link: <a href="https://techcrunch.com/2023/08/24/fusion-power-challenges-founder-survey/">https://techcrunch.com/2023/08/24/fusion-power-challenges-founder-survey/</a>, date accessed: 01/11/2023]</p> <p>H3. TechCrunch+ Investor Surveys   “7 founders explain what fusion power needs to go mainstream” by Tim De Chant, 29/08/2023 [link: <a href="https://techcrunch.com/2023/08/29/7-founders-explain-what-fusion-power-needs-to-go-mainstream/?guccounter=1">https://techcrunch.com/2023/08/29/7-founders-explain-what-fusion-power-needs-to-go-mainstream/?guccounter=1</a>, date accessed: 01/11/2023]</p> <p>H4. Age of Miracles by Packy McCormick   Who Will Win the Fusion Race?, 15/12/2023 [link: <a href="https://youtu.be/w8suLtCyGGA?si=iQ8spz-CdWwwp9PR">https://youtu.be/w8suLtCyGGA?si=iQ8spz-CdWwwp9PR</a>, date accessed: 12/01/2024]</p> <p>H5. 20 public interviews to scientists of the fusion community retrieved from the podcast <i>Fusion Focused</i> by Ella Fox-Widdows, from July 2021 to November 2023 [link: <a href="https://www.podchaser.com/podcasts/fusion-focused-4016128?">https://www.podchaser.com/podcasts/fusion-focused-4016128?</a>, date accessed: 05/07/2023]</p> <p>H6. 15 public interviews to scientists of the fusion community retrieved from the vodcast <i>CoffeeBreakDown</i> by Aaron Ho and Luca Vialto, from November 2021 to November 2023 [link: <a href="https://www.youtube.com/@breakdownpodcast/videos">https://www.youtube.com/@breakdownpodcast/videos</a>, date accessed: 05/07/2023]</p>
<p><b>How is fusion told by scientists and officials</b></p> <p>Semi-structured interviews to fusion scientists in public research centres and start-ups in Europe and the US</p>	<p>42 semi-structured interviews [20 in person and 22 online] to fusion scientists and officials in nuclear fusion research centres and start-ups in Europe and the US, recruited via snowball sampling (September 2022 to September 2023)</p>
<p><b>How fusion is practiced in a dedicated research centre</b></p> <p>Multi-sited ethnographic materials in nuclear fusion facilities and events</p>	<p>100 days of participant observation at the nuclear fusion research centre Consorzio RFX in Padova, Italy (from September 2022 to September 2023)</p> <p>20 fusion scientists shadowed during their daily work at the Consorzio RFX in Padova, Italy (from September 2022 to September 2023)</p>