

Social Contribution Report 2023

Sener in Poland



Introduction

Ladies and Gentlemen,

We are pleased to introduce to you the upcoming edition of our Social Contribution Report. 2023 was a year that will go down in the history of our company as a period of intense development, dynamic growth and numerous achievements. Indeed, we celebrated our 10th anniversary in the space sector, a milestone in the company's history and testimony to the strong position and successes we have achieved together over the years.

It was also a time of intense activity, during which we were involved in a number of innovative projects that confirm our commitment to the sector and our ability to take on challenges. One of these was the completion of a challenging phase of the ATHENA project and the delivery of six hold-down and release mechanisms (HDRMs) and a vibration test adapter. Another success for our team was winning the contract to supply fifteen devices for the Ground Support System and Separation Mechanism for the Comet Interceptor mission. This is one of the

most technologically advanced projects in our company's history and a record in terms of the number of components.

We were present at the most important events in our sector, at conferences in Poland and abroad, such as the GSTP 30 Years Anniversary, ESMAS 2023 and the International Astronautical Congress. We actively participated in social initiatives to support the local community and promote values of sustainability.

Our ten years of experience are not just about numbers and projects, but above

all about the people who make up the company's history. In 2023, we welcomed 14 exceptional new team members on board. For us, this not only supports the dynamic growth of the company, but also the fresh outlook, ideas and passion that the new employees bring.

I invite you to explore the details of our achievements and social activities in this report, which are the result of the joint work and commitment of the entire team, as well as the support of our Partners and Clients.



Beatriz Pérez Galán

General Director

Sener in Poland



About Sener

Sener's activities in Poland are based on two product groups: mechanisms for aerospace applications, comprising hold-down and deployment mechanisms, positioning mechanisms and special application mechanisms, as well as ground support equipment (MGSE).

Acting as a link between Polish entities and the global space sector, we have so far established cooperation with more

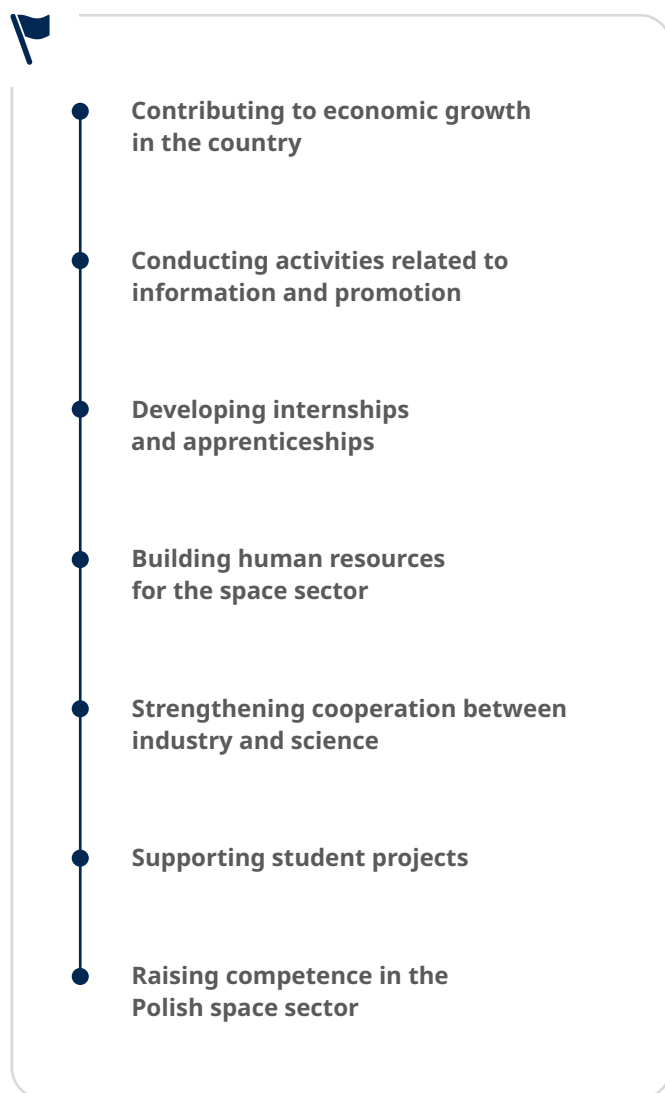
than 80 companies from different regions of Europe. Since 2012, we have been continuously developing our competences and business ecosystem. Our team, today consisting of 42 people, takes part in the implementation of projects within the most important missions of international space organisations: European Space Agency (ESA), NASA, ESO, and integrators including Airbus and OHB, contributing to Poland's growing importance among key

players in the European space market. We are systematically investing in research and development of our own products, strengthening our position as a leader in innovation in space technology.

Stakeholders:



Social contribution objectives:



Sener in Poland most important fields of activity



Design:

creating concepts, plans and technical specifications for a wide variety of projects, involving both engineering analysis, systems design and the development of project documentation.



Production:

leading and controlling the production process and implementation of designed solutions, manufacturing components, equipment and systems according to defined standards and specifications, in cooperation with subcontractors.



Testing:

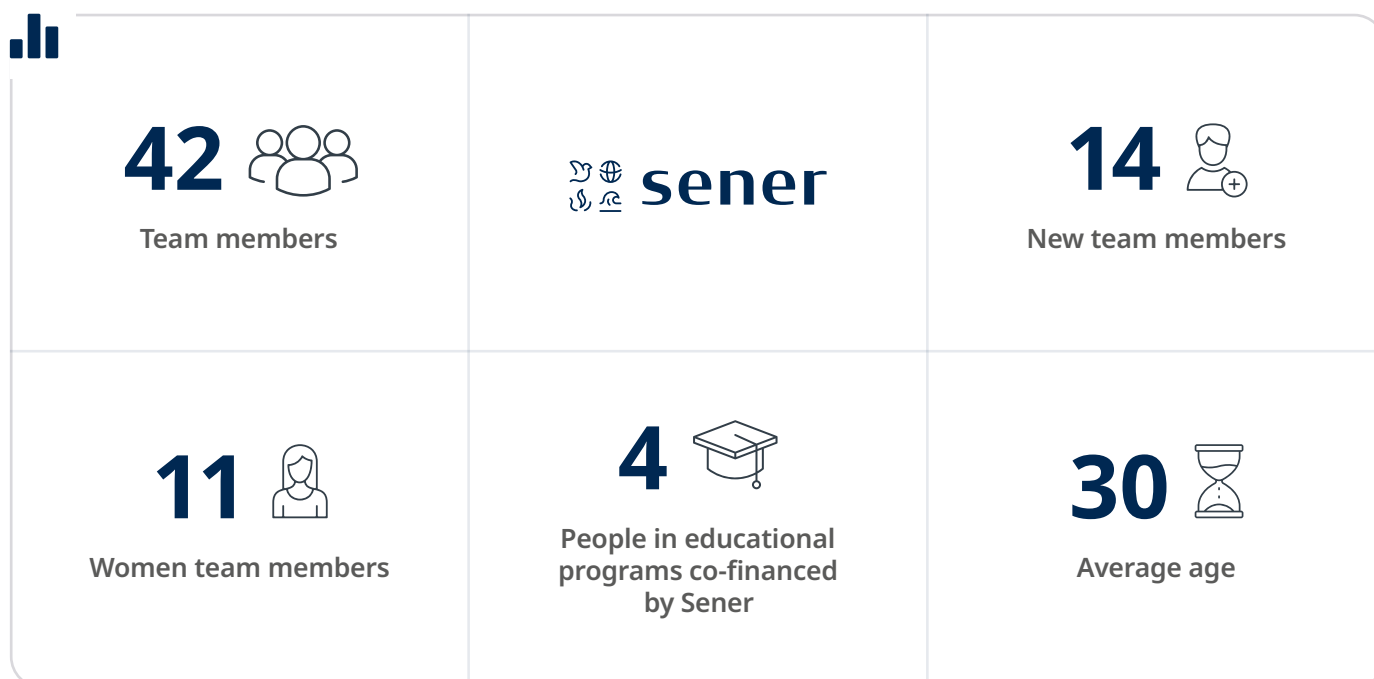
carrying out comprehensive tests, verifying functionality, performance and compliance with technical requirements of products. Testing covers both development and final stages, ensuring high quality and reliability.



Transportation:

organising transport process, managing logistics and delivering products to their destination.

Our team - 2023 in numbers



Staffing structure



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For me, working at Sener has been a fascinating experience that has allowed me, first of all, to understand the complex pattern of project development in the space sector, paying particular attention to preparation for space missions.

One of my main areas of activity has been my involvement in the design of the MGSE structure for the Comet Interceptor mission, which has allowed me to put into practice the knowledge I have gained in FEM calculations and materials engineering. I have also had the opportunity to provide support on the ATHENA mission, which has broadened my experience in hold-down and release mecha-

nisms (HDRMs) and direct instrument testing.

However, what has particularly interested me is thermal analysis and missions related to space stations such as the ISS

and Gateway, which inspire me particularly strongly. Hence, the opportunity to develop in these areas in the near future makes me optimistic about upcoming challenges and achievements in the space sector.



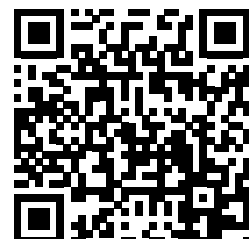
Maciej Skorupski

Project Engineer, Polish Space Fellowship Program 2023 competition winner
Sener in Poland



In 2023, we celebrated the 10th anniversary of our participation in the space sector. To mark the occasion, the Sener team produced a special video summarising the company's last decade of activity.

Scan the code to watch the video.



Cooperation with the private sector



In 2023, we worked with 84 private entities. Our procurements ranged from the manufacturing of complex structures, such as Mechanical Ground Support Equipment, to medium and small details for mechanisms and commercial components (including springs, gears and fasteners).

We have also established new partnerships with transport service providers. We are delighted that, once again, Sener is

not only providing end-to-end solutions, but also engaging as a catalyst for growth

for our partners, enabling them to develop and expand into new markets.



Adam Gełczewski

Procurement Specialist

Sener in Poland



- 1 TECHNIKO Zbigniew Kowalik
Skuszew
- 2 Zakład Ślusarski Szczepan Bujalski
Warsaw
- 3 ESEM Sławomir Bąk Marzena Wojtasik sp. z o.o.
Garwolin
- 4 Zamet Industry sp. z o.o.
Piotrków Trybunalski
- 5 ZAMEH Sp. z o. o.
Łagiewniki
- 6 Magellan Aerospace sp. z o.o.
Mielec
- 6 Waldrex sp. z o.o.
Mielec
- 7 Aerospace Dynamic Group sp. z o.o.
Czechowice-Dziedzice
- 8 METALPOL Węgierska Górka Sp. z o.o.
Węgierska Górka



Curiosity about the universe and creative work is the result of the meeting of two companies. Thanks to the innovation and the highest production standards we strive for at TECHNIKO, we are a company open to the implementation of projects with a high technological commitment, which is what our clients expect, and one of them is the Polish branch of Sener. Cooperation with the company means a high work culture for our teams, mutual support, but also activating new areas in mechanical engineering that we have not exploited before. Working with Sener has been an edifying experience for the entire TECHNIKO team. Participation in

the LISA APM and ATHENA HDRMA projects is our company's successful response to Sener's mechanical engineering needs. We are proud to have attracted the aerospace engineering sector in addition to the automotive and aviation industries with our work.

Working for the Polish branch of Sener is a boost to TECHNIKO's development, a new professional challenge for our team and a real pleasure to work with people endowed with knowledge, culture and passion.



Zbigniew Kowalik
TECHNIKO



California



- SMAC
Carlsbad, United States of America
- Smiths High Performance
Biggleswade, Great Britain
- Plascore GmbH & Co. KG
Waldlaubersheim, Germany
- Johann Maier GmbH & Co.KG
Stuttgart, Germany
- Socitec
Sartrouville, France
- FLUOROTECHNIQUE
Paris, France
- Cedrat Technologies
Meylan, France
- Metallurgica Marina
Erandio, Spain
- Eurocontainer
Saragossa, Spain

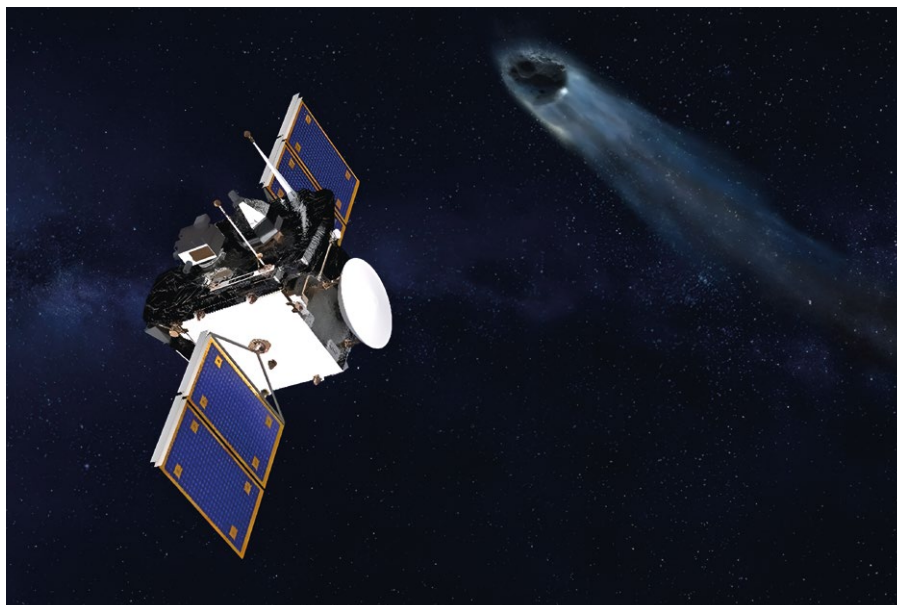
Case Study

Separation Mechanism for the Comet Interceptor mission

As part of our collaboration with OHB Italy, the Sener Poland team is taking part in the Comet Interceptor project carried out by the European Space Agency (ESA). Our main task is to develop and deliver the Separation Mechanism, which will enable the ESA's research probe to be separated from the main satellite and put in motion with the appropriate speed, enabling it to track the passing comet and carry out scientific experiments.

Scope of work

Our responsibilities for the Comet Interceptor mission include the comprehensive delivery of the flight model, a copy of the Separation Mechanism that will be launched with the satellite. This process includes the stages of design, manufacture, assembly and rigorous testing procedures.



Technical requirements

The Comet Interceptor mission poses unique challenges in meeting unusual technical requirements. The Separation Mechanism we are developing must operate precisely and reliably, ensuring the safe separation of the research probe from the satellite. This task requires us not only to be technologically advanced, but also to have an excellent knowledge of space conditions.

Project status



Such mechanisms for space applications are one of Sener Poland's main specialisations. Each successive project we carry out in this field not only allows us to demonstrate our experience, but because of its uniqueness: the task to be fulfilled, the unusual technical requirements, it allows us to further develop and discover new solutions.



Filip Perczyński

Project Manager for the Comet Interceptor Intersatellite Separation Mechanism project
Sener in Poland

Cooperation with the public sector

In 2023, we actively participated in events organised by the Polish Space Agency. These included the GSTP 30 years Anniversary conference, a celebration of the 30th anniversary of the ESA's General Support Technology Programme (GSTP), which serves to keep the European

space sector at the forefront of technological innovation worldwide. Sener Poland was invited to a panel discussion on the Polish contribution to research and development across the sector. We held quarterly meetings with both POLSA representatives and specific ministries. We

strengthened our cooperation with the Ministry of Education and started a partnership with the Space Research Centre of the Polish Academy of Sciences.

Participation in events

Carrying out long-term activities for the development of the Polish space sector, we ensure our presence at the most important industry events. In 2023, we participated in a number of initiatives, giving presentations, lectures and attending guest lectures at universities.

As we do every year, we are also involved in charitable and social initiatives. In 2023, we donated 6 laptops and 8 computer sets to the "Home-Family-Human" Association supporting children with disabilities.



Night at the Institute of Aviation

Piotr Skoczylas gave a presentation in which he introduced participants to details of the Gateway space station under construction and the large manned and unmanned lander systems currently under development, which will be on the Moon by the end of this decade.



European Rover Challenge

Piotr Skoczylas - Project Engineer, and Filip Perczyński - Project Manager, sat on the jury of the European Rover Challenge - the largest Martian robot competition in Europe.



ESMATS 2023

Our Project Managers actively participated in one of the most important industry conferences of 2023. Beata Wiertel was the presenter of the first session of the conference on "Satellite Docking, Capturing and Connecting Mechanisms", Katarzyna Okulska-Gawlik gave a presentation and presented "lessons learned" on the Solar Array Deployment Mechanism (SADM) and the Hold-Down and Release Mechanism (HDRM) based on the PROBA-3 mission, while Janusz Grzybowski presented a poster on the intersatellite separation mechanism for the B2 probe on the Comet Interceptor mission.



Krynica Forum

Jakub Pierzchała, Business Development Manager, was a panelist in the "Space Industry – Opportunities and Challenges for Poland" panel, where he talked about, among other things, Poland's role in global research, the importance of investment in space technology, education and international cooperation of Polish companies, which are key to the development of the entire domestic space sector.



"Meeting with space" for students of the Rzeszów University of Technology organised by the Polish Space Agency

Piotr Skoczylas, our Project Engineer, gave a lecture on "Lunar and Mars exploration – opportunities for the development of the Polish space industry".



Cosmic Challenge

Piotr Skoczylas was one of the Mentors of the Association of Polish Space Professionals programme, an initiative aimed at young students of the space industry. Piotr told the programme's finalists about the development of his space career path, explaining, among other things, what nuclear thermal rocket engines are and why the need to develop infrastructure on the Moon is essential for further exploration of the Solar System.



Perspektywy Women in Tech Summit 2023

Katarzyna Okulska-Gawlik spoke on the “Women in Space” panel discussion, where she talked about, among other things, the growing power of women in the space industry, their contributions to space exploration, and the challenges they face in the industry.



Informing the public

Through its activity in the media, Sener in Poland effectively promotes the Polish space sector, contributing to increasing public awareness of its potential and achievements. We engage in various media activities, such as participation in television programmes, press publications and activity on social media platforms. We aim to democratise knowledge about

space, presenting the complexity of the field in an accessible way and explaining how space innovations affect everyday life.

We aim to enhance the reputation of the Polish sector abroad by releasing our annual Social Contribution Report in English. This report goes beyond sim-

ply highlighting our achievements; it delves into the tangible effects of our initiatives on the local community, while also showcasing Poland's expertise in the international space sector.

Media statements regarding Sener in Poland

WP tech NAUKA MILITARIA TLDR NEWS

Czy Einstein miał rację? Teleskop kosmiczny Euclid powie "sprawdzam"

Czy Einstein miał rację? Teleskop kosmiczny Euclid powie "sprawdzam"

Wizualizacja teleskopu Euclid w kosmosie.

tech.wp.pl

geekweek Technologia Nauka Lifestyle Podróże GeekExtra Więcej

INTERIA • GEEKWEEK • NAUKA • ASTRONOMIA • POLACY WEZMĄ UDZIAŁ W WAŻNEJ MISJI ESA. CHODZI O BADANIE KOMET

Polacy wezmą udział w ważnej misji ESA. Chodzi o badanie komet

Dawid Długosz
ASTRONOMIA | Poniedziałek, 18 grudnia 2023 (12:07)

Sener Polska to rodzima firma, która weźmie udział w ważnej misji badawczej Europejskiej Agencji Kosmicznej. Jest nią Comet Interceptor, której celem jest zbadanie komet długookresowych. Polacy w ramach umowy dostarczą kilkanaście urządzeń dla systemu wspomagania naziemnego satelity oraz specjalny mechanizm separacyjny.

Misja Comet Interceptor pozwoli lepiej zbadać komety /cometinterceptor.space /materiały prasowe

Komety długookresowe to takie, które przybywają w pobliże naszej planety z odległych przestrzeni. Czasem są to obiekty spoza Układu Słonecznego. Badania tego typu zjawisk są trudne, ale

geekweek.interia.pl

KOSMONAUTA.net

FORUM SEKTOR RYNEK MISJE B+R KOSMOS EDUKACJA INNE KARIERA

JĘZYKI

YOU ARE AT: Home » Rynek » Firmy » Sener Polska - 10 lat

Sener Polska - 10 lat

WYBAKACJA (09.12.2023) 2023

Sener Polska obchodzi właśnie 10 lat działalności.

Irma Sener Polska w ciągu ostatnich dziesięciu lat zrealizowała 20 projektów i dostarczyła mechanizmy do międzynarodowych misji, takich jak Euclid JUICE czy ExoMars. Ponadto, udało się rozwinąć sieć obejmującą ponad 80 polskich przedsiębiorstw, a część z nich wprowadzając do branży

ZOBACZ TAKŻE:

- Selstar kosmiczny 18-31 marca 2024 18 marca, 2024
- Społukaj ekspert. architekta Kosmiczna 16 marca, 2024
- Eye-In-The-Sky - uczestnik konkursu CarSat 2024 13 marca, 2024
- Nowy projekt ustawy o działalności kosmicznej 12 marca, 2024
- Wyniki konkursu DirectionSpace 11 marca, 2024

FACEBOOK

ZAKŁADKI

kosmonauta.net

GAZETA wyborcza

"Wyborcza o Kosmosie" supplement

Gazeta Wyborcza

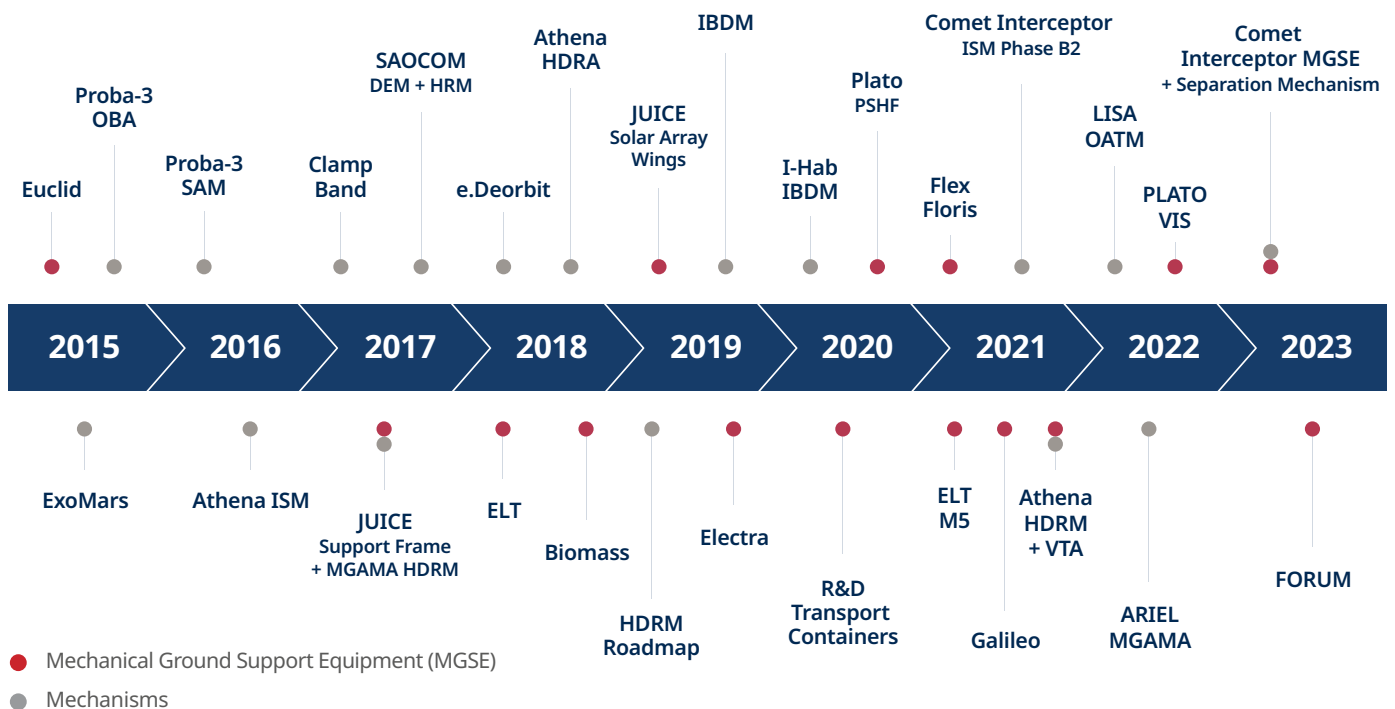


388 publications on Sener in Poland activity published in the media in 2023.

195 mln recipients according to Press Service.



Projects carried out by Sener in Poland since 2015





www.group.sener



www.linkedin.com/company/Sener-aerospace



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www.youtube.com/user/Senerengineering



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