Recovery of Tungsten, Niobium and Tantalum occurring as by-products in mining and processing waste streams

(TARANTULA)

D8.4 Short, 5-minute, animated video

WP number and title	WP8 – Communication, dissemination, exploitation & clustering
Responsible partner	KUL
Contributor	VITO
Reviewer	TEC
Dissemination Level	PU
Deliverable date	September 2020 (Revised April 2021)

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Summary

In collaboration with Storyrunner the TARANTULA project team created an animated video to present the project and its objectives. The film was made to disseminate the project concept to a very wide (non-expert) audience. Using graphic designs and beautiful animations, it explains why the so-called refractory (strong) metals – tantalum, tungsten and niobium – are crucial for Europe's industry, where these elements are currently mined and why this import dependence makes the European economy vulnerable.

1. From storyboard to movie

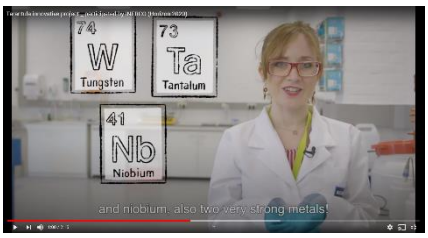
During several preparatory meetings to explain the project objectives and activities, the storyboard of the project movie was developed by the team of KU Leuven in collaboration with Storyrunner (cf. annex - storyboard). The draft scenario was shared and approved by the full project consortium.

On June 19 and 29, 2020, a project team from VITO and KU Leuven and the camera crew shot the video (corona-proof) at the site of VITO Belgium. A short news item about the development of the movie was posted on the project website.

A draft version of the video was shared internally with the project consortium. After some corrections, a second version was approved by the full consortium and all partners were invited to support the launch and the dissemination of the short movie.

2. Joint launch of the movie

On September 15, 2020, the video was launched on the TARANTULA project website. Many partners and consortium members shared the video on their websites and on social media which increased the number of views exponentially. Also, several affiliated project websites showcased the movie. At the end of September, 2020, the video the main item of the project newsletter.



The TARANTULA project video can be viewed on the project website, and/or directly on youtube.

Below, several screenshots about the sharing of the video are added.

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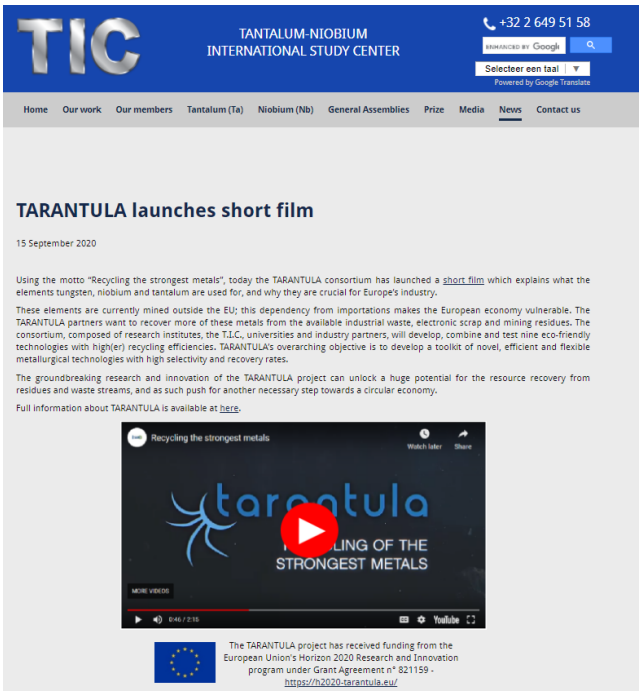

Figure 1 TARANTULA movie was featured on the website of TIC

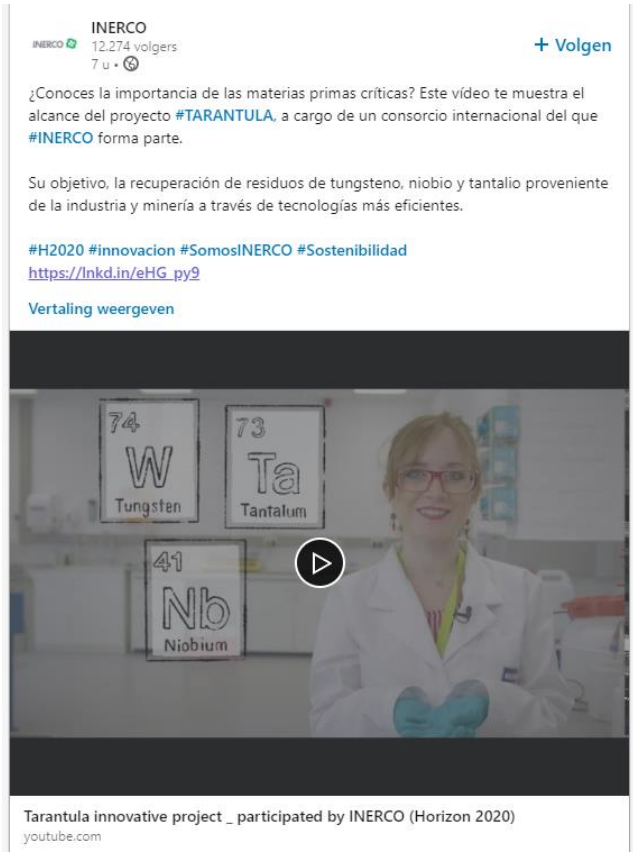

Figure 2 TARANTULA movie was featured on the LinkedIn account of INERCO

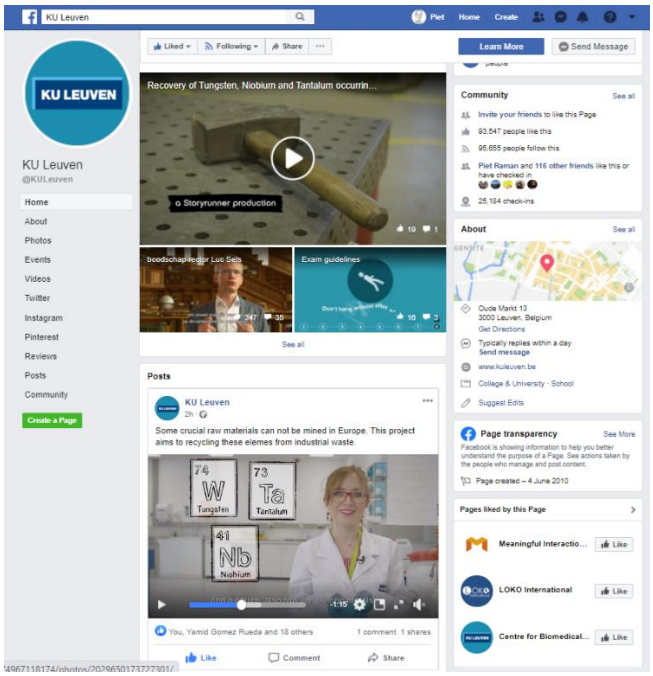

Figure 3 TARANTULA movie was promoted on the Facebook page of partner KU Leuven

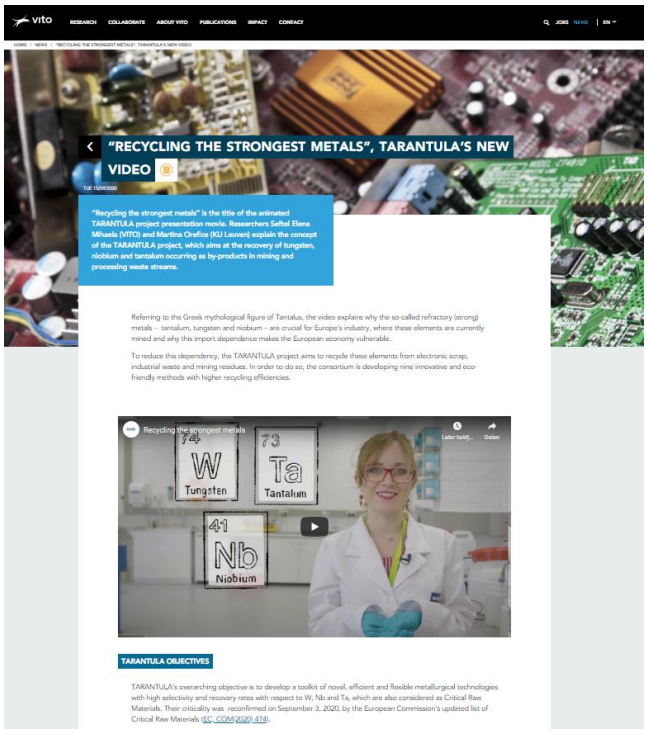

Figure 4 TARANTULA movie was featured on the website of VITO

3. Annex: Video Storyboard

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	TARANTULA – ANIMATED VIDEO	IMAGES & ANIMATION
Intro 32”		Introduction in lab
	Scientist 1: This very thin metal looks fragile, but is actually very strong. It is called tantalum. It is named after this Greek mythological figure Tantalus, who was so strong, that he could endure eternal torture, because the Gods deprived him of food and water.	Tantalum in fire, under a heavy hammer, … Animation: Tantalus reaches for water and apple
	Scientist 2: Well, strong metals – like tantalum - are key for our European economy. That’s why we are looking for new ways to recycle (and recover) them.	Recycling sign apears …
Titel 5”	***Recycling of the strongest!*** ***European research project Tarantula***	
Scène 1		
21”	**Scientist 1:** In addition to tantalum we also focus on tungsten, known as wolfram , and niobium, also two very strong metals! They are used in jet engines of rockets, in pacemakers, in aircrafts and magnetic trains, superconductors, and all sorts of high-quality cutting tools!	Ta, W, Nb Nice graphics of rockets, aircrafts and trains… Tantalus is impressed, thumps up.

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Scène 2		
14”	**Scientist 2:** The metals are crucial for our industry! But most of tantalum is mined in Central Africa (Congo and Rwanda), niobium is mined in Brasil and tungsten in China. This dependence makes Europe vulnerable.	Countries appear on a spinning globe Reaction Tantalus
Scène 3		
18”	**Scientist 1:** So why not recycle them - here in Europe - from electronic scrap, industrial waste and mining residue? That’s the goal of our TARANTULA project. Together, we are developing these 9 eco-friendly methods to recycle these metals. Yes 9!	And photos of scrap, industrial waste, mining waste A range of eco-friendly methods appear.
12”	**Scientist 2:** Thanks to this research: Europe will become stronger geopolitically and will take a new important step to a zero-waste society. Thank you for watching!	Arm of our Tantalus with European flag tattoo, that turns into a recycling tattoo!
2’00	ENDCREDITS	For more information + logos partners *“The TARANTULA project has received funding from the European Union's EU Framework Programme for Research and Innovation Horizon 2020 under Grant Agreement No 821159”*

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