



Dissemination videos

Deliverable D6B.4

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Preface

The IMPRESSIONS final video collection (available from the IMPRESSIONS Information Hub (www.highendsolutions.eu) or via the IMPRESSIONS YouTube channel (<https://www.youtube.com/playlist?list=PLjZd3Z9OZd75G2x9MHxBul4LvW4jlacm1>) was planned and created as part of a comprehensive communication and dissemination plan. It provides an easy to digest compilation of the project's scientific results and methods for policy- and decision-makers.

Deliverable D6B.4 explains the rationale behind the series of final dissemination videos in support of the content of the IMPRESSIONS Information Hub (see Deliverable D6B.6). It also briefly describes other videos developed during the project lifetime as part of "Inside IMPRESSIONS" (providing information on the project overall, its work packages and case studies), as films of the project's stakeholder workshops (see http://www.impressions-project.eu/show/project_11464/) and through exploring the use of art as a form of communication of high-end climate change (see "The Bond You Hold" (<https://vimeo.com/142046379>; <https://vimeo.com/219431632>)).

Summary

The IMPRESSIONS final video collection was a consortium-wide effort, pulling together the expertise of researchers and communication experts, to create a final product synthesising IMPRESSIONS science into 12 linked videos suitable for a wide range of stakeholders, including policy- and decision-makers.

The video collection supports other dissemination products from IMPRESSIONS, such as the Information Hub (see Deliverable D6B.6) and the collection of policy briefs (see Deliverable D6B.5) in meeting the needs of practitioners and policy-makers in gaining quick and focused insights on how to choose and manage innovative solutions for tackling high-end climate change. The video collection follows the structure of the Information Hub with a video covering each of the five key questions (What could a future above 2°C look like?; What are the consequences of a future above 2°C?; What do we want our future to look like?; How can a sustainable future be achieved?; What are the transformative solutions?) and five case studies (Central Asia, Europe, Iberia, Hungary, Scotland), as well as introductory and methodology videos. All videos can be accessed through the project's website, YouTube Channel and via the Information Hub.

1. Strategy behind the final collection of dissemination videos

IMPRESSIONS has created a wide range of outcomes over its 5-year duration of relevance to climate and socio-economic scenarios, impacts and vulnerability, visions of sustainable development, adaptation and mitigation pathways, and transformative solutions. Described in various scientific outputs and a special journal issue, there was also a need for these results to be presented in a more accessible format for practitioners and decision-makers to ensure real world impact and exploitation of IMPRESSIONS results by the project's potential end-users.

To achieve this, the project steering committee decided to create a collection of dissemination videos linked to the IMPRESSIONS Information Hub, a portal for making all the outcomes from the project available to potential end-users (see Deliverable D6B.6). The videos were designed to highlight the main IMPRESSIONS approaches and related key findings for each section of the Information Hub (five key questions and five case studies). Separate videos providing an introduction to the project and describing the overall IMPRESSIONS approach were also developed for the 'Home' and 'About' pages of the Information Hub, respectively.

2. Creation and decision-making process

The design and content of the IMPRESSIONS Information Hub was discussed at many General Assembly and Steering Committee meetings (see Deliverable D6B.6 for details). The Information Hub was also demonstrated during its various stages of development to the stakeholders attending the IMPRESSIONS stakeholder workshops for each case study. When asked for feedback stakeholders consistently responded that they would like to see infographics and videos included in the Information Hub. Therefore, in 2017 we subcontracted Countryscape to produce such material together with introductory text for each page. Together with Countryscape we developed scripts for the 12 videos included in the Information Hub.

3. Content of the dissemination videos

The collection of 12 dissemination videos can be watched independently or in a sequenced order that takes the viewer through the IMPRESSIONS methodology and how it was applied in five case studies. The following sections introduce each video and provide a link to the video within the Information Hub.

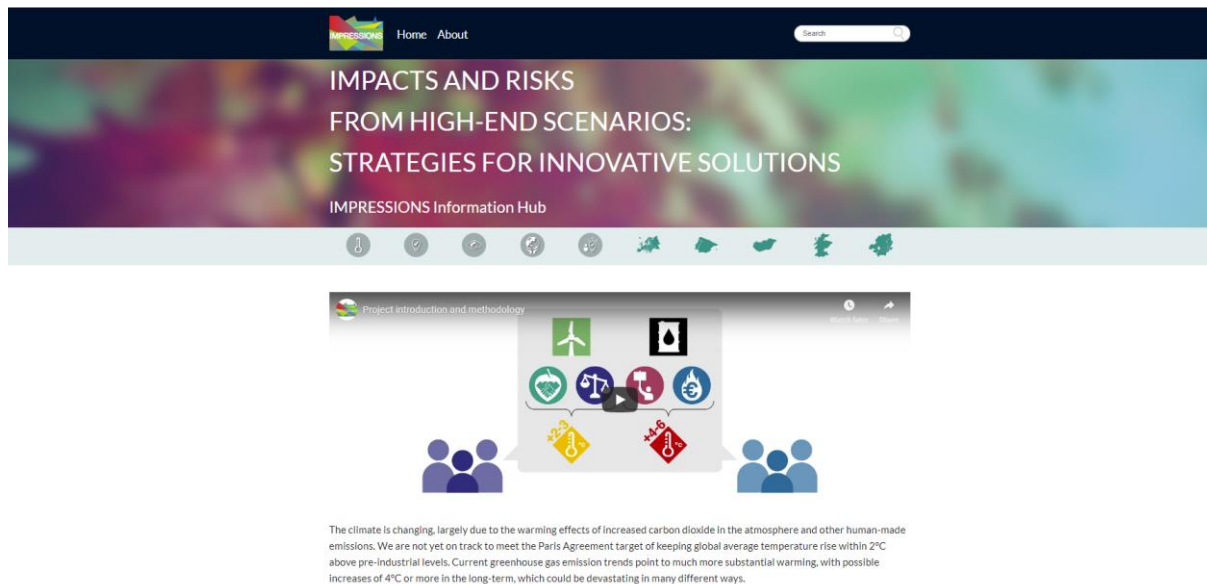
3.1. Project introduction

Featured on the Information Hub's 'Home' page this video describes how the climate is changing, largely due to the warming effects of increased carbon dioxide in the atmosphere and other human-made emissions. It highlights that we are not yet on track to meet the Paris Agreement target of keeping global average temperature rise within 2°C above pre-industrial levels. Current greenhouse gas emission trends point to much more substantial warming, with possible increases of 4°C or more in the long-term.

It then summarises the IMPRESSIONS aims of improving understanding of what a future above 2°C could look like, which is defined as "high-end climate change", and what decisions decision-makers can take to help reduce the impacts of such high-end climate change. However, climate change isn't the only problem the world faces; we live in a world with poverty, poor health, water shortages, a lack of food security, land degradation, resource depletion, mounting social inequalities and weak

governance systems. These global problems are all closely interlinked and our current solutions for tackling them tend to be over-simplistic.

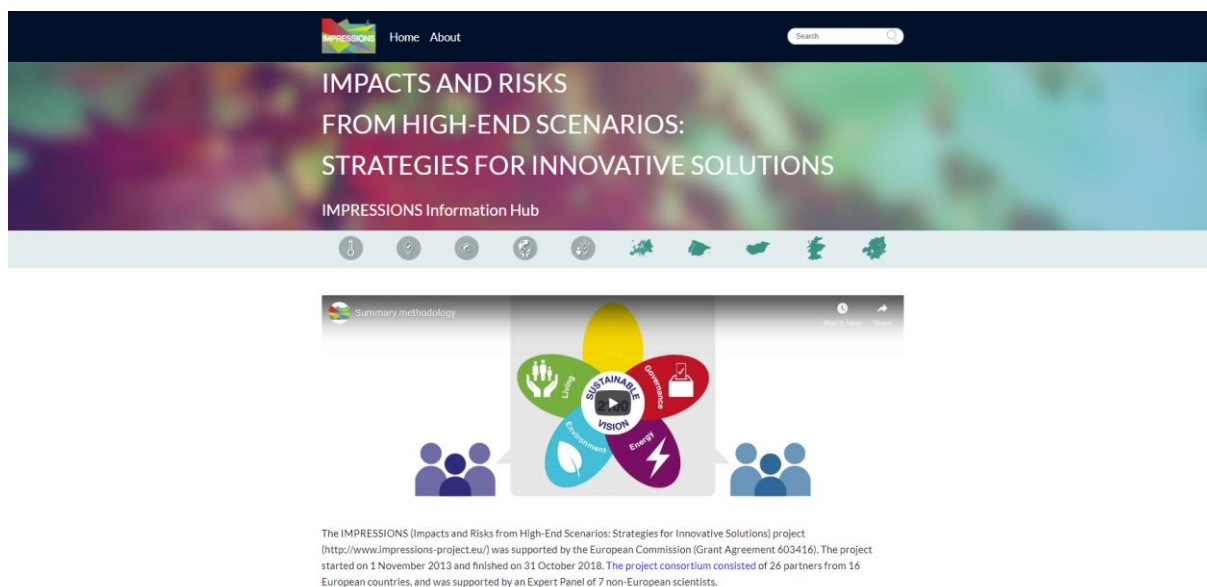
An overview of the IMPRESSIONS methodology is described including how the project has modelled the possible impacts of high-end climate change combined with other key global challenges for five case studies across Europe and Central Asia. Stakeholders have helped develop a vision for what we want the year 2100 to look like, as well as pathways and concrete guidelines for action to move society closer to this vision of a sustainable future.



Link: <http://www.highendsolutions.eu/>

3.2. Project methodology

Featured on the Information Hub's 'About' page this video describes the IMPRESSIONS methodology in more detail by means of a set of animated graphics.

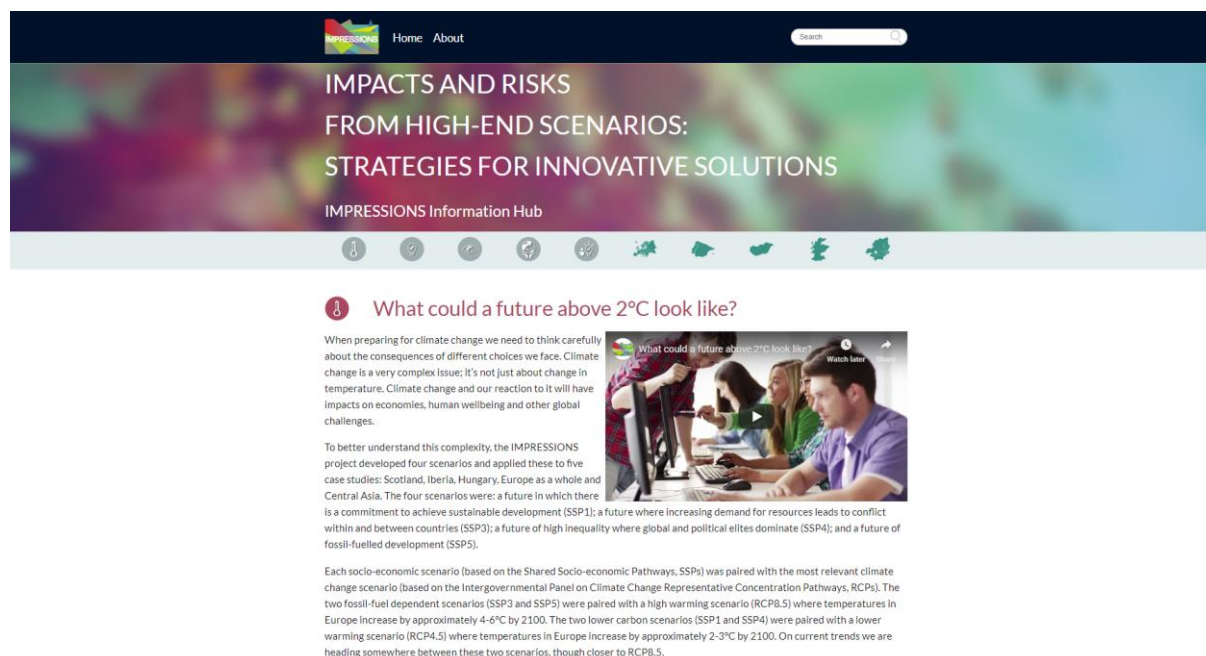


Link: <http://www.highendsolutions.eu/about>

3.3. What could a future above 2°C look like?

This video describes the four scenarios developed by the project and applied to five case studies. The four scenarios were: a future in which there is a commitment to achieve sustainable development (SSP1); a future where increasing demand for resources leads to conflict within and between countries (SSP3); a future of high inequality where global and political elites dominate (SSP4); and a future of fossil-fuelled development (SSP5).

Each socio-economic scenario (based on the Shared Socio-economic Pathways, SSPs) was paired with the most relevant climate change scenario (based on the Intergovernmental Panel on Climate Change Representative Concentration Pathways, RCPs). The two fossil-fuel dependent scenarios (SSP3 and SSP5) were paired with a high warming scenario (RCP8.5) where temperatures in Europe increase by approximately 4-6°C by 2100. The two lower carbon scenarios (SSP1 and SSP4) were paired with a lower warming scenario (RCP4.5) where temperatures in Europe increase by approximately 2-3°C by 2100.

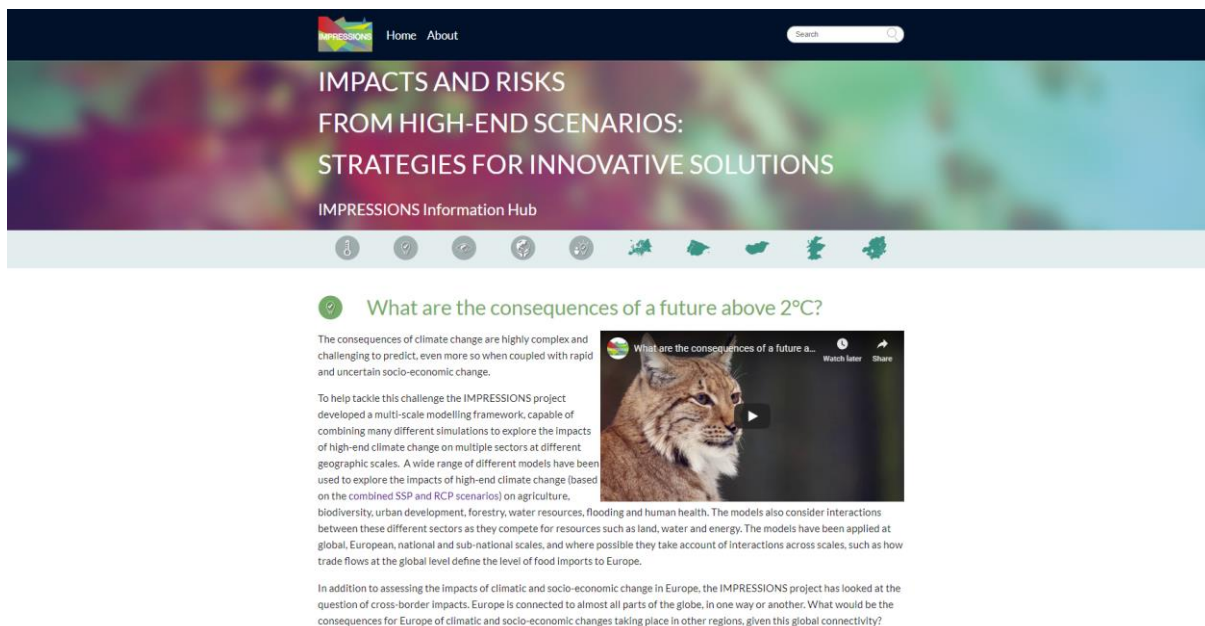


Link: <http://www.highendsolutions.eu/page/red>

3.4. What are the consequences of a future above 2°C?

This video describes the multi-scale modelling framework developed in the project, capable of combining many different simulations to explore the impacts of high-end climate change on multiple sectors at different geographic scales. A wide range of different models have been used to explore the impacts of high-end climate change (based on the combined SSP and RCP scenarios) on agriculture, biodiversity, urban development, forestry, water resources, flooding and human health. The models also consider interactions between these different sectors as they compete for resources such as land, water and energy. The models have been applied at global, European, national and sub-national scales, and where possible they take account of interactions across scales, such as how trade flows at the global level define the level of food imports to Europe.

The modelling framework has enabled the exploration of synergies and trade-offs between different adaptation and mitigation actions and some examples of these are given in the video.



3.5. What do we want our future to look like?

The IMPRESSIONS project worked with experts and stakeholders to discuss deeply held views about what they want the world to look like in the year 2100. This video describes the process and outcomes from developing five aspirational visions - one for each IMPRESSIONS case study. The visions are not restricted to our response to climate change, but consider broader global issues. Each vision differs to some extent as it reflects locally-specific issues and perspectives. However, some aspirations are common across all visions, such as a call for equity among citizens and societies; sustainable agriculture, water and energy systems; and transparent, accountable, democratic and participatory governance.

The video also describes how through a stakeholder dialogue across the European case studies, major elements of the European, Hungarian, Scottish and Iberian visions were consolidated towards a common vision for Europe in 2100. Each vision can be used by decision-makers to set long-term goals and develop strategies to achieve and measure these goals. The visions are also an essential step in the process of creating pathways and strategies for adaptation, mitigation and transformation in the face of climate change.



Link: <http://www.highendsolutions.eu/page/turquaze>

3.6. How can a sustainable future be achieved?

This video describes the sets of pathways developed in IMPRESSIONS that aim to move society towards visions of a sustainable future. These pathways have been developed by combining stakeholders' knowledge and expertise with detailed qualitative and quantitative analysis.

Stakeholders were initially asked to identify specific actions that would help to achieve the different elements of their vision for the year 2100. These actions were then refined, enriched and clustered into strategies and pathways which achieve vision elements, such as equality and equity, or sustainable food, water and energy. As each vision contains multiple elements, pathways inevitably address multiple policy domains, sectors, institutions and scales. Common strategies in the pathways created for four case studies (Europe, Scotland, Iberia and Hungary) are described in the video.



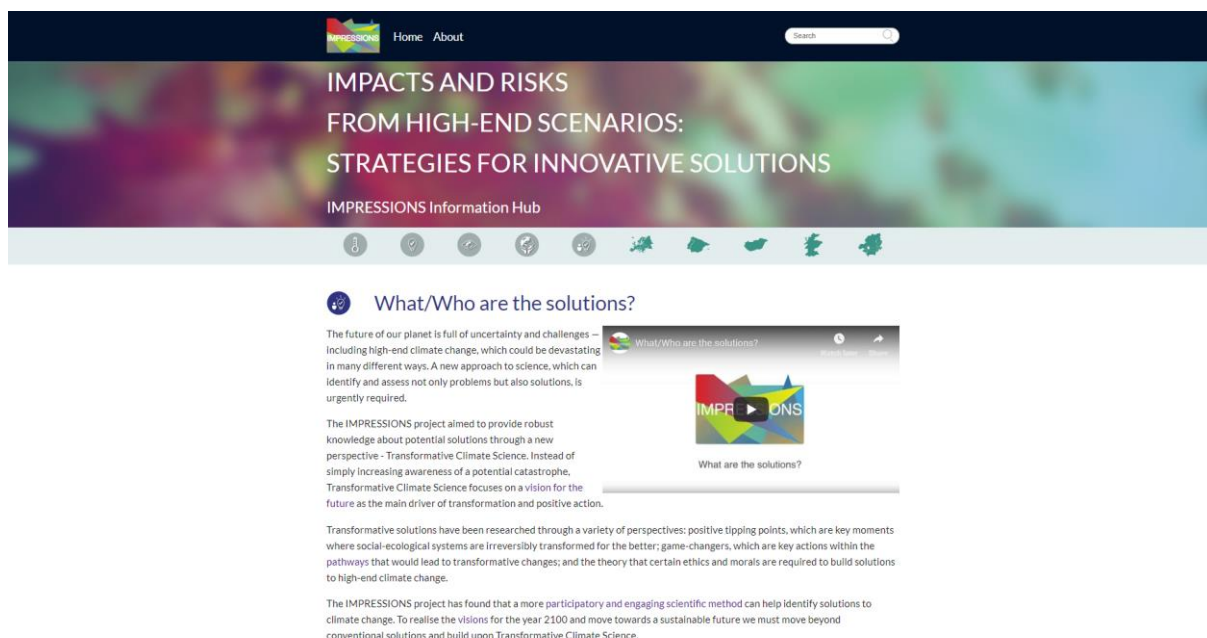
Link: <http://www.highendsolutions.eu/page/lightblue>

3.7. What are the transformative solutions?

This video describes a new approach to science explored and expanded in IMPRESSIONS to provide robust knowledge about potential solutions through a new perspective - Transformative Climate Science. Instead of simply increasing awareness of a potential catastrophe, Transformative Climate Science focuses on a vision for the future as the main driver of transformation and positive action.

Transformative solutions have been researched through a variety of perspectives: positive tipping points, which are key moments where social-ecological systems are irreversibly transformed for the better; game-changers, which are key actions within the pathways that would lead to transformative changes; and the theory that certain ethics and morals are required to build solutions to high-end climate change.

The video explains how the IMPRESSIONS project has found that a more participatory and engaging scientific method can help identify solutions to climate change. To realise the visions for the year 2100 and move towards a sustainable future we must move beyond conventional solutions and build upon Transformative Climate Science.



Link: <http://www.highendsolutions.eu/page/blue>

3.8. European case study

This video describes an overall synthesis of key results for the European case study covering the climate and socio-economic scenarios, modelling of impacts and vulnerabilities, adaptation and mitigation pathways, and transformative solutions.



Link: <http://www.highendsolutions.eu/page/european>

3.9. Iberian case study

This video describes an overall synthesis of key results for Iberia focusing on the Tagus river catchment, covering the same themes as European case study.



Link: <http://www.highendsolutions.eu/page/iberian>

3.10. Hungarian case study

This video describes an overall synthesis of key results for Hungary focusing on the municipalities of Szekszárd and Veszprém, covering the same themes as European case study.



Hungarian Case Study

Hungary is one of the most vulnerable countries to climate change in Europe. Extreme events, including droughts, floods, heavy rainfalls and heat waves, have become more frequent and intense over recent decades. The Hungarian case study focused on the impacts of high-end climate change and socio-economic change in two medium-sized cities: Szekszárd and Veszprém. It aimed to support stakeholders in incorporating these high-end scenarios in their present development strategies and adaptation measures.

Working with stakeholders from across Hungary, the case study developed four socio-economic scenarios which were combined with two climate scenarios. These scenarios (describing what could happen) were applied to models of agriculture, water, human health and urban development to explore potential impacts and vulnerabilities in Hungary and in Szekszárd and Veszprém in particular. Model results show that an increase in temperature above 2oC is projected to have a significant impact on Hungary. Heat stress poses a major public health problem in the region; greater extremes of dry and wet periods are projected to affect water availability and management and Lyme disease infection rates are projected to increase nationwide.



Link: <http://www.highendsolutions.eu/page/hungarian>

3.11. Scottish case study

This video describes an overall synthesis of key results for Scotland, covering the same themes as European case study.



Scottish Case Study

Introduction

This case study focuses on the impacts of high-end scenarios on the economic and land-based sectors of Scotland, UK. Scotland's rural economy is a key part of the identity of Scotland. Climate and socio-economic changes have has potential implications for Scotland's reforestation targets; growth patterns for commercial tree species; tourism activity; the spread of Lyme disease; as well as hydrological patterns and their implications for aquatic ecosystems.



Link: <http://www.highendsolutions.eu/page/scottish>

3.12. Central Asia case study

This video describes an overall synthesis of key results for Central Asia focusing on the implications that different climate and socio-economic changes would have for Central Asia; how these could affect and be affected by neighbouring China and Russia; and how Europe might respond.



Link: http://www.highendsolutions.eu/page/central_asia

3.13. Other IMPRESSIONS videos

In addition to the final collection of 12 linked videos, IMPRESSIONS has created and promoted other videos during its 5-year duration. These consist of a series of videos featuring interviews with work package and case study leaders who provide an overview of the research aims and methods in their area known as “Inside IMPRESSIONS”. Furthermore, videos were made of six stakeholder workshops, including the final cross-scale workshop held in Hungary in April 2018.

Finally, the Iberia case study explored new modes of communication, engagement, learning and climate knowledge integration through the Arts (see Annex 5 of Deliverable D5.4 for full details). This included a physical theatre performance overlaid with pattern projections and music embodying the dynamic relation between climate and humans, in a world beyond 2°C warming, which was performed live at the first Iberian workshop in Lisbon in June 2016. Subsequently it was made into short and longer versions of a video: **The Bond You Hold** (<https://vimeo.com/142046379>; <https://vimeo.com/219431632>) directed by Diego Galafassi and Maria Heras with performance and choreography Maria Magdalena Beky Winnerstram. The video is also available on the website, in the Videos section of the Media Center, and in a dedicated [news item](#).

4. Conclusions and outlook

As a result of the five-year collaboration and joint efforts from all work packages involved, the IMPRESSIONS video collection presents a comprehensive resource for practitioners, policy- and decision-makers seeking practical insights on how to implement innovative solutions to deal with potential risks of high-end climate and/or socio-economic change.

The full video collection will be available to view for at least 5 years after the end of the project on the IMPRESSIONS website and Information Hub.