COMPILATION OF AR BASED CASE STUDIES SUPPORTING THE TEACHING OF SDGS







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Introduction:

The ARTSe project addresses two crucial priorities within the European Union, namely the need to encourage a higher level of sustainability on our lifestyles and to promulgate digitalisation within member states. ARTSe pursues a specific goal of developing an AR assisted curriculum for Sustainable Development which is cross curricular and extends beyond national boundaries in its applicability and is supported by a guidebook, AR supported case studies, lesson plans and Augmented Reality experiences to be used as pedagogical tools. Although educators are the main beneficiaries of this project, the overarching objective is to stimulate the current Gen Zers and the forthcoming Generation Alpha students by creating an educational environment where physical and virtual worlds intermingle. AR enhances the interactivity between student and learning, encourages student engagement and promulgates collaboration and peer learning. All resources are intended to extend beyond the physical confines of classrooms to render themselves valid and relevant for use in virtual classrooms.

This is a compilation of AR based case studies that focus on the following SDGs:

- SDG3: Good Health and Well-being
- SDG6: Clean Water & Sanitation
- SDG7: Affordable and Clean Energy
- SDG9: Industry, Innovation & Infrastructure
- SDG11: Sustainable Cities and Communities
- SDG12: Responsible Consumption & Production

For each SDG, there are a number of case studies that use one of three platforms, namely the bespoke app that was created as part of this project, Zappar and Halo AR. Guidelines for educators to use these three platforms to use and/or create their own case studies can be found in the ARTse publication: **Guide on How To Develop AR Content for SD Education**. Given the ubiquity of smartphones, we encourage schools to start embracing methodology that incorporates their use as a key educational tool. The use of assistive technology such as 3D learning tools will also balance the social/psychological divide since it allows everyone to learn at their own pace.

Methodology

The case studies created in this document are the result of a collaboration between the school partners in this project. The six SDGs chosen for the project were distributed among the three school partners as follows:

GCHSS Malta: SDG 3 and SDG 12

Harjunrinteen Koulu Finland: SDG 6 and SDG 9

IIS Tommaso d'Oria : SDG 7 and SDG11

Each school took responsibility to design, develop, test and amend case studies in relation to the SDGs chosen.

The methodology used to create the augmented reality case studies shown in this document involved several steps. The first was to identify the educational objectives of each case study. This were obtained on the basis of the lesson plans that were created as an integral part of the curriculum developed in this project. Case studies could be used for instruction purposes, to generate debate and/or to assess understanding of subject matter. Once the educational objectives were established, the next step was to develop the content that will be presented through AR.

The content development process was broken down into several stages. The first stage involved creating the content that would be used in the AR experience. This involved deciding which software platforms were to be used. Initially the focus was on the use of the Zappar App. However, after several consultations and discussions between the school partners, it was decided to expand the horizon to include other platforms that might be more affordable to schools. In this way the project would ensure a higher level of accessibility and practicality. This also required school partners to test different tools that could be integrated in the case studies such as videos, text, voice messages, amongst others. The next stage was to integrate the content with the AR platform.

Following the Alpha stage, the next step was to test the AR experiences. This was done in two ways: project partners were able to test material which was uploaded on a shared Google Drive, while students were able to use the AR experience in a classroom setting during the LTTA meetings. This provided valuable feedback on the effectiveness of the AR experience in achieving its educational objectives. It also helped identify any technical issues that needed to be addressed. Once this was done, the material created could move to the Beta stage.

Apart from these case studies which are freely available to all, this project is also presenting a guidebook to explain in detail how new case studies can be created. This will enable educators and trainers to create compelling and effective AR experiences that enhance learning and engagement.

Case Studies using the ARTse App:

One of the aims of this project was to create a bespoke app for augmented reality (AR) experiences both in a classroom setting and as part of an extracurricular activity. The first step was to clearly define the educational goals of the app since this helped guide the design process and ensure that the app is aligned with the curriculum and learning objectives.

Next, the content and visual assets for the AR experience had to be developed. This involved creating 3D models, animations, and other multimedia content that would help educators deepen student understanding of content, create discussions and collaborations, and assess content assimilation. The 3D models created in these case studies can be a powerful tool to enhance student engagement and learning. The creation of these case studies is a result of a tight collaboration between the school partners and Diversitas, the Croatian partner entrusted with the design and development of the AR experience.

Similar to the paper-based AR supported case studies, school partners took responsibility in determining the objectives and creating the content to be used. These case studies can be an integral part of the lesson plans that were created to support the curriculum designed in this project, or can be used as stand-alone educational resources. Diversitas worked with school partners as follows:

GCHSS Malta : SDG 3 and SDG 12

Harjunrinteen Koulu Finland: SDG 6 and SDG 9

IIS Tommaso d'Oria : SDG 7 and SDG11

Testing the AR experience of the different case studies has been a critical step in this project. The Alpha testing was conducted in two stages. Partners were given the opportunity to test and provide feedback on specific case studies during the Transnational Project Meetings held in Malta, Finland and Italy. As a result of this the Croatian partners fine-tuned the AR experience to make it more meaningful to students. The second level of testing was done by the students themselves during the Learning, Teaching and Training Activities held in the same three countries. The Croatian partners received feedback from both students and educators and this was used to continue to enhance the AR experience of the case studies supported by the app. Educators were then asked to reassess the amended versions to ensure that each case study is effective in achieving the desired educational goals and that it is engaging and enjoyable to use.

While some of the case studies are earmarked as part of a classroom experience, others can be used outside the classroom. Moreover consideration was also given to the possible reality that education is conducted online and therefore these case studies were designed to ensure adaptability to such a scenario. These case studies can be used for stand-alone exercises or integrated as part of the lessons as indicated in the book: Curriculum for Training Educators on AR in Sustainable Development.

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SDG3: Good Health and Well-being

Who can benefit?

Educators in the following fields, amongst others – physical education,

personal and social development, psychology, sociology, biology,

home economics/family and consumer sciences, sustainable development,

English as a foreign language, European studies.

Platforms:

Case studies 1 and 2 use Zappar

Case studies 3 and 4 use Halo AR

App Supported Case Study

SDG Targets Covered

3.4 - Promote Mental Health and Well-being

3.5 - Prevention and Treatment of Substance Abuse (including Drug Abuse and Harmful Use of Alcohol)

3.8 - Achieve access to Quality Essential Health Care Services

Objectives: Case Study 1: Fighting Substance Abuse

Case Study 2: Brain to Body Exercise

Case Study 3: Benefits of Physical Activity

Case Study 4: Eating Disorders

App Supported Case Study: This case study aims at creating awareness of the need to exercise by assigning a number of short physical activities that have to be done within a specified time period. Each activity is supported by close ended questions that help reinforce student knowledge of issues related to health and well-being.

Case Study 1: Fighting Substance Abuse

Fighting Substance Abuse

Case Study for Curriculum SDG 3 - Good Health & Well-Being

Preventing Addiction 101



Video Source - MCM/NN https://www.youtube.com/watch?v-wCMNN2ji20E

The aim of this case study is to show that anyone can get addicted to substances, irrespective of age, gender, income, job, social status and race. Addiction is when someone feels a strong urge to keep on taking a substance even if this is causing harm to self. By downloading the Zappar App on your mobile device (from AppStore or Google Play) and pointing toward this flyer, you will see a video clip of how anyone can become addicted to drugs. You can also learn more about our ARTse project by pointing your mobile to the logos below.







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Case Study 2: Brain to Body Exercise

BRAIN TO BODY AR EXERCISE

Case Study for Curriculum SDG 3 – Good Health & Well-Being



The scope of this AR Exercise is to supplement the handout and lesson on Substance Abuse. It assesses student comprehension of material related to the important nutrients for survival, vital organs and the negative effects of drug abuse. By downloading the Zappar App on your mobile device (from AppStore or Google Play) and pointing toward this flyer, the representation below of a healthy human brain and one that has been affected by substance abuse will change into a 3D representation of both brains.







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Case Study 3: Benefits of Physical Activity



ARTse - SDG 3 - Good Health & Well-being

Benefits of physical activity



Discussion Points:

How can physical activity improve us? Discuss the main benefits.

Reflect on your daily life and how you can make it better. Discuss.

Finish this part of the lesson with a 5 minute indoor physical workout.



"Do something today that your future self will thank you for."

-Sean Patrick Flanery



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Case Study 4: Eating Disorders



ARTse - SDG 3 - Good Health & Well-being

Case study - Eating Disorders





Discussion Points:

What are eating disorders?

Is it right to report a friend you suspect has an eating disorder?

What could the signs of an eating disorder be?

What can be done to treat and recover from eating disorders?

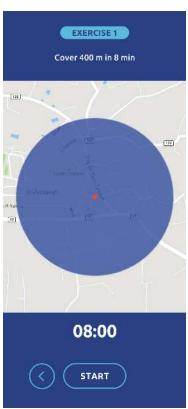
Conclusion:





App Supported Case Study













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SDG6: Clean Water & Sanitation

Who can benefit?

Educators in the following fields, amongst others – civics, robotics, technology, environmental studies, science, physical education, biology, home economics, sustainable development

Platforms:

Case studies 1 and 3 uses Halo AR

Case study 2 uses Zappar

App Supported Case Study

Covered

- SDG Targets 6.1 By 2030, achieve universal and equitable access to safe and affordable drinking water for all.
 - 6.2 By 2030, achieve access to adequate and equitable sanitation and hygiene for all and end open defecation.
 - 6.4 By 2030, substantially increase water-use efficiency across all sectors and ensure sustainable withdrawals and supply of freshwater to address water scarcity and substantially reduce the number of people suffering from water scarcity.

Objectives: Case Study 1: SDG Targets and Indicators

Case Study 2: Intelligent Water Consumption

Case Study 3: Mind Map AR

App Supported Case Study: This case study aims to give students a more realistic idea about what kind of situation prevails in many countries. Students have to find "water" from nearby areas using a live map algorithm.

Case Study 1: SDG Targets and Indicators

SDG 6 targets and indicators

Case Study for Lesson SDG 6 - Clean water and sanitation



Video Source - Youtube: https://youtu.be/hYfZw-bpfJw







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Case Study 2: Intelligent Water Consumption

Our Water Footprint

Maximising on the Invaluable Resource



Case Study for SDG 6 - Clean Water and Sanitisation

Intelligent Water Consumption 101



Video Source - Youtube: https://www.youtube.com/watch?v=3_onEg4y1u8

The aim of this case-study is to demonstrate the importance of water in our life, and to exhibit ways through which we can contribute to its sustainable use. By downloading the Zappar App on your mobile (from AppStore or Google Play) and pointing toward this flyer, you will see a video clip of how this task can be performed. You can also learn more about our ARTse project by pointing your mobile to the logos below.





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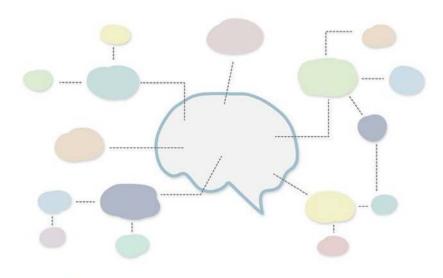
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Case Study 3: Mind Map AR

SDG 6 Mind map AR

Case Study for Lesson SDG 6 - Clean water and sanitation



Video Source - Youtube: https://youtu.be/WAiC8WLeE78





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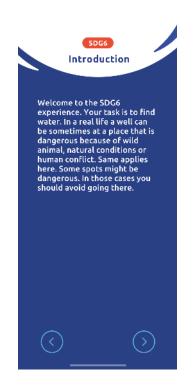


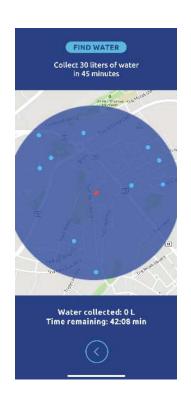
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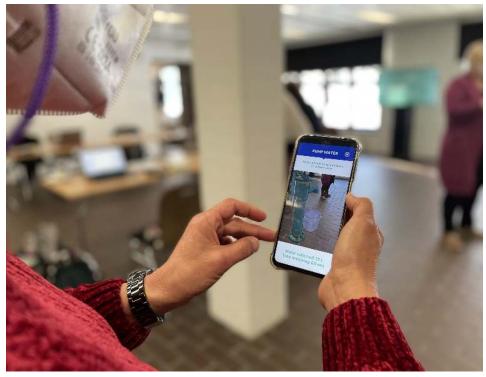
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App Supported Case Study









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SDG7: Affordable and Clean Energy

Who can benefit?

Educators in the following fields, amongst others – civic education, geography, physical education, technology, IT, science, sustainable development, history.

Platforms:

Case studies 1 uses Zappar

Case studies 2 uses Halo AR

App Supported Case Study

Covered

SDG Targets 7.1 - By 2030, ensure universal access to affordable, reliable and modern energy services.

- 7.2 By 2030, substantially increase the share of renewable energy in the global energy mix.
- 7.3 By 2030, double the global rate of improvement in energy efficiency.
- 7.a By 2030, enhance international cooperation to facilitate access to clean energy research and technology, including renewable energy, energy efficiency and advanced and cleaner fossil-fuel technology, and promote investment in energy infrastructure and clean energy technology.
- 7.b By 2030, expand infrastructure and upgrade technology for supplying modern and sustainable energy services for all in developing countries, in particular least developed countries, small island developing States, and landlocked developing countries, in accordance with their respective programmes of support.

Objectives: Case Study 1: Photovoltaic Features

Case Study 2: How to Save Energy at Home

App Supported Case Study: This case study aims at creating awareness on how much electricity can be produced from renewable sources, namely solar and wind power. Students learn how wind turbines and solar panels work, and get a feel of what they would look like in a real environment. Each activity is supported by close ended questions that help reinforce student knowledge of issues related to health and well-being.

Case Study 1: Photovoltaic Features

Photovoltaic panels Energy

Case Study for Lesson SDG 7 - Affortable and clean energy

Photovoltaic features



The aim of this case study is to make people aware of the main characteristics of photovoltaic panels, how they work and where they should be placed. By downloading the Zappar App of our mobile (from AppStore or Google Play) and pointing toward this flyer, you will see a video clip about basics technologies of photovoltaic panels. You can also learn more about our ARTse project by pointing your mobile to the logos

below.





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AR-based Quiz

In this section, we will be testing whether you are familiar with the terms of multilayer silicon unit, reduce electicity bills, continous energy supplies. Through an AR-based Quiz, we will learn more about this scary world.



Q1: A photovoltaic cell is typically a multilayer silicon unit able to transform and conduct energy. This energy comes from the charges generated by the photovoltaic effect in the semimetal; which kind of charges are them?





Q2: In which timeframe photovoltaic panels may reduce the electicity bills?





Q3: The term "photo" derives from a Greek word meaning "light". True or false?





Q4: In which of the two weather conditions the photovoltaic panels is more likely to guarantee an adequate charge?









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Case Study 2: How to Save Energy at Home

How to save energy at home

Case Study for Lesson SDG 7 – Affordable and clean enrgy

In this section, we will be testing whether you are familiar with a correct use of energy at home. After carefully considering your habits, scan the QR code and move over the picture.





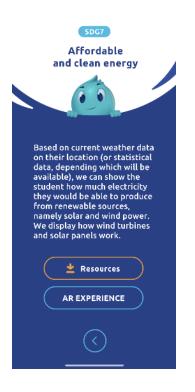
Scan the QR code and move over the question title. Then answer the question about your personal habits.

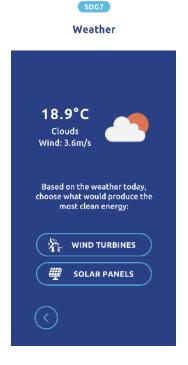
Are you an energy saver at home?

To conclude, prepare a list of thinks both you already do and you don't.

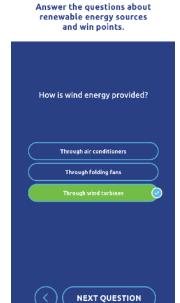
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App Supported Case Study













SDG9: Industry, Innovation & Infrastructure

Who can benefit?

Educators in the following fields, amongst others — civics, robotics, technology, environmental studies, science, physical education, biology, home economics,

sustainable development

Platforms:

Case studies 1, 2 and 3 use Halo AR

App Supported Case Study

SDG Targets Covered

- 9.1 Promote inclusive and sustainable industrialization and, by 2030, significantly raise industry's share of employment and gross domestic product, in line with national circumstances, and double its share in least developed countries
- 9.2 By 2030, upgrade infrastructure and retrofit industries to make them sustainable, with increased resource-use efficiency and greater adoption of clean and environmentally sound technologies and industrial processes, with all countries taking action in accordance with their respective capabilities
- 9.a Facilitate sustainable and resilient infrastructure development in developing countries through enhanced financial, technological and technical support to African countries, least developed countries, landlocked developing countries and small island developing States 18
- 9.b Support domestic technology development, research and innovation in developing countries, including by ensuring a conducive policy environment for, inter alia, industrial diversification and value addition to commodities
- 9.c Significantly increase access to information and communications technology and strive to provide universal and affordable access to the Internet in least developed countries by 2020

Objectives: Case Study 1: How to Make a Change

Case Study 2: Infograph

Case Study 3: Venngage Poster

App Supported Case Study: This case study aims to highlight the connection between industries, innovations and infrastructure. Students scan different objects and get relevant information about the composition of the objects. Students will be able to understand the importance of constructing new, greener infrastructure and the role of smart technology to reduce environmental impacts and increase efficiency in the use of natural resources. During the activity a series of questions will help students review what has been learned for this topic.

Case Study 1: How to Make a Change

SDG 9 How to make a change?

Case Study for Lesson SDG 9 – Industries, innovation and infrastructure



Video Source Youtube: https://youtu.be/NU6rc_vm9rs

- 1. How industries, innovations and infrastructure are connected to each other?
- 2. How SDG9 is connected to other SDGs?
- 3. What we can do as individuals to help SDG9 targets to come reality?







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Case Study 2: Infograph

SDG 9 Infograph

Case Study for Lesson SDG 9 - Industries, innovation and infrastructure



Video Source - Youtube: https://youtu.be/uQXf_d5Mgig











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Case Study 3: Venngage Poster

SDG 9 Venngage poster

Case Study for Lesson SDG 9 - Industries, innovation and infrastructure





Video Source - Youtube: https://youtu.be/_xftl5rqCJ8



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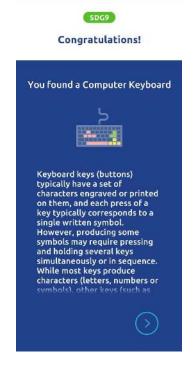
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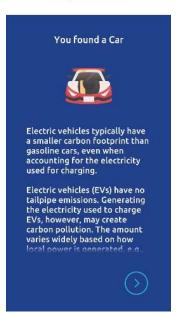
App Supported Case Study

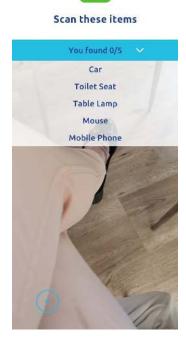














SDG9

SDG11: Sustainable Cities and Communities

Who can benefit?

Educators in the following fields, amongst others — civic education, geography, physical education, technology, IT, science, sustainable development, history.

Platforms:

Case study 1 uses Zappar

Case study 2 uses Halo AR

App Supported Case Study

SDG Targets Covered 11.1 - By 2030, ensure access for all to adequate, safe and affordable housing and basic services and upgrade slums.

- 11.2 By 2030, provide access to safe, affordable, accessible and sustainable transport systems for all, improving road safety, notably by expanding public transport, with special attention to the needs of those in vulnerable situations, women, children, persons with disabilities and older persons.
- 11.3 By 2030, enhance inclusive and sustainable urbanisation and capacity for participatory, integrated and sustainable human settlement planning and management in all countries.
- 11.4 By 2030, strengthen efforts to protect and safeguard the world's cultural and natural heritage.

Objectives: Case Study 1: Cities between Pandemic and Famine

Case Study 2: Overtourism and Overpopulation

App Supported Case Study: This vehicle-specific case study allows learners to choose between different modes of transportation and instantly achieve a change in both air quality and mobility. The drive is to have the most sustainable means of transport and generate less CO_2 while creating an awareness of the main causes of climate change and natural disasters. Students are also asked to answer a set of questions which help them visualise the impact of their decisions on the environment.

Case Study 1: Cities between Pandemic and Famine

Urban disasters



Case Study for Lesson SDG 11 - Sustainable cities and communities.

Cities between pandemic and famine



The aim of this case study is to make people aware of how mortality rate during great epidemics has been determined by the increase in urban populations. By downloading the Zappar App on your mobile (from AppStore or Google Play) and pointing toward this flyer, you will see a video clip about the history of epidemics in the world. You can also learn more about our ARTse project by pointing your mobile to the logos below.





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AR-based Quiz

In this section, we will be testing whether you are familiar with the terms of epidemic, pandemic, plague, and both the social causes and the consequences associated with them. Through an AR-based Quiz, we will learn more about this scary world.



Q1: The "Great Plague" in Athens of 430-429 BC described by Thucydides was probably a pandemic of



OH GAMESH

Q2: The social consequences of agriculture may cause harmful effects, such as massacres of cattle, invasions of frogs, flies, mosquitoes, grasshoppers, pustules and ulcers throughout the body. They are first described in



SANITARY

Q3: In the overcrowded cities of the first half of the 19th century, the spread of the infection was facilitated by



/NEW YORK Q4: The population density has also affected the Covid-19 pandemic. Which cities, among the wealthiest in the world, have been hit particularly early and hard?









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Case Study 2: Overtourism and Overpopulation

Overtourism and Overpopulation

Mass Tourism

Case Study for Lesson SDG 11 – Sustainable cities and communities

The aim of this case study is to show how mass tourism can have a dreadful impact on our cities. Learners can therefore become aware of some wrong behaviours to avoid and become more responsible tourists when visiting cities. Scan the QR code and move over the picture.

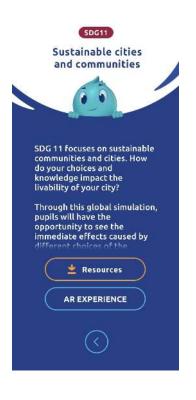


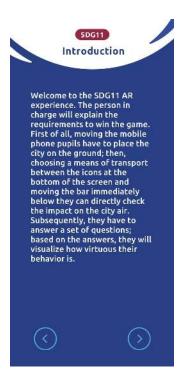
Answer the following questions based on the video and your own research:

- Nowaday, how is the city of Venice trying to manage the huge flow of tourists?
- 2. Are large cruise ships still allowed to enter the Venice lagoon?
- Does tourism still account for the 8 percent of global greenhouse emission?
- 4. Are works of art still damaged accidentally or deribelatly by tourist?
- Fines for behaviour have been introduced in cities all over the world.Find some example.

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App Supported Case Study















SDG12: Responsible Consumption & Production

Who benefit?

can

Educators in the following fields, amongst others — business subjects, environmental subjects, science subjects, sociology, geography, home economics, sustainable development, English as a foreign language, law and policy, civics, graphic design and art, European studies.

Platforms:

Case studies 1 and 3 use Zappar

Case study 2 uses Halo AR

App Supported Case Study

SDG Targets Covered

- 12.2 Sustainable Management And Use Of Natural Resources
- 12.3 Halve Global Per Capita Food Waste
- 12.4 Responsible Management Of Chemicals And Waste
- 12.5 Substantially Reduce Waste Generation
- 12.6 Encourage Companies To Adopt Sustainable Practices And Sustainability Reporting
- 12.7 Promote Universal Understanding of Sustainable Lifestyles

Objectives: Case Study 1: Coffee Beans Journey

Case Study 2: Nestle Steps up Coffee Sustainability Effort

Case Study 3: Preventing Repulsive Sights & Odours in the Kitchen

App Supported Case Study: This case study highlights the importance of adopting consumption and production patterns that do not have negative impacts on the planet. Students can visualise the journey of the coffee bean from plant to consumption and waste disposal. During this journey a set of questions and relevant information are presented to ensure student understanding of the topic.

Case Study 1: Coffee Beans Journey





Case Study 2: Nestle Steps up Coffee Sustainability Effort



ARTse - SDG 12

Sustainable Production and Consumption

Case Study - Nestle steps up Coffee Sustainability Efforts

(October 4 2022)

Food giant Nestle pledged on Tuesday over \$1 billion by 2030 on efforts to source coffee sustainably, more than double its previous pledge, as challenges linked to climate change pose particular risks for







Discussion Points:

- 1. Nestle is pledging \$1 billion to make coffee more sustainable. Do you think this is a good investment for Nestle?
- 2. What are regenerative agricultural practices. Write a short report of 100 words or discuss in class.
- 3. What would happen if agricultural land becomes unproductive? Is only coffee affected?

Conclusion:





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Case Study 3: Preventing Repulsive Sights & Odours in the Kitchen

Storing Food Properly

Reduce Waste

Case Study for Lesson SDG 12 – Responsible Production and Consumption

Preventing repulsive sights and odours in the kitchen 101



Video Source - The Design Network: https://www.youtube.com/worch/v-XRpDHs2498ihst-RDCUUVCCASmonRqDDHs2ew8start_nadio-18t-0

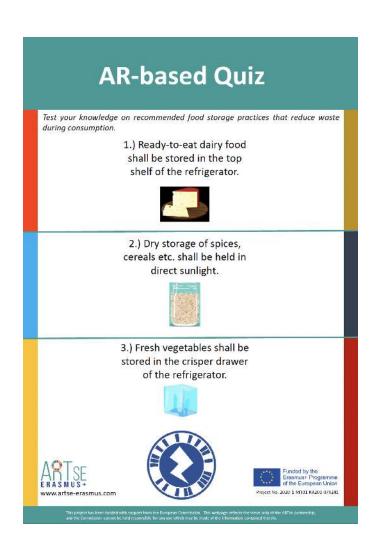
The aim of this case-study is to demonstrate how food should be properly stored to reduce food wastage by minimising the chances of food getting rotten and causing food poisoning due to bacteria. Many individuals either do not know or forget how this task should be done. By downloading the Zappar App on your mobile (from AppStore or Google Play) and pointing toward this flyer, you will see a video clip of how this task can be performed. You can also learn more about our ARTse project by pointing your mobile to the logos below.





w.artse-erasmus.com Project No. 2020-1-MT01-KA201-074241

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App Supported Case Study













