Reboot the Earth: Virtual Challenge
SAP Higher Education Challenge
This August, SAP Analytics for Higher Education will be hosting an online viz-a-thon contest using SAP Analytics Cloud (SAC) with SAP Next-Gen and the United Nations.

Our theme this year is **climate change**, taken out of 17 UN Global Goals. This contest is the virtual portion of SAP Next-Gen’s **Reboot the Earth** challenge.

This challenge will only be available for students in Argentina, Canada, Chile, Colombia, Mexico, Peru, India and the United States.
SAP Next-Gen is hosting **Reboot the Earth**, a global hackathon series that will take place on 5 different continents.

Winners of the 5 local hackathons and the top 3 finalists of the virtual challenge will be invited to SAP New York from September 18th to 19th, and then invited to the Awards Ceremony at the United Nations Headquarters on the 21st.
Along with UN Global Goal 13 - Climate Change - pick one of four key topics to create data visualizations using SAP Analytics Cloud to find actionable insights.
What are the steps to the virtual challenge?
Step One

Read about Goal 13: Climate Change and choose one of the following challenges to create a visualization which provides insights to potential solutions.

One of the following:
- Women
- Sports
- Fashion
- Gaming
Problem Statement:

There is a growing recognition that by enhancing educational opportunities for young women and girls to gain STEAM skills, and connecting women with diverse skill sets such as design, data science, marketing, social science and public policy to come together and work on innovative solutions for climate action, new solutions can be accelerated addressing UN Global Goals #13 – Climate Action, #5 – Gender Equality, and #4 – Quality Education.

To scale the impact of initiatives promoting women as climate action leaders, five areas need to be addressed Detailed challenge description:

1. 100 % of the population needs to be involved
2. Women need to be empowered to drive effective climate solutions
3. Communities need to involve women to build climate resilience
4. The impacts of climate change on vulnerable populations of women need to be addressed
5. Countries need to involve women to accelerate cooperation based on the United Nations Framework Convention on Climate Change (UNFCCC)

Detailed Challenge Description:

How can the latest technologies such as experience management solutions, digital platforms, analytics, and intelligent technologies such as machine learning, blockchain and the Internet of Things (IoT) be harnessed to promote new solutions addressing UN Global Goals #13 – Climate Action, #5 – Gender Equality, and #4 – Quality Education? E.g. Expanding global access to educational content and networks of purpose, connecting women with diverse skill sets or creating a platform to showcase female climate action champions.
Step One – Option 2
Topic 2: Sports + Climate

Problem Statement:

Sports organizations can display climate leadership by engaging actively and collectively in the climate neutrality journey, in turn helping to differentiate from competitors, build brand reputation and engage their sports personnel, employees and members on environmental issues. This can be achieved by taking responsibility for their climate footprint, helping global ambition step-up and incentivizing action beyond sports to take meaningful and transformative climate action.

UN Climate Action and participants in the Sports for Climate Action Initiative are committing to adhere to the following five principles:

• Principle 1: Undertake systematic efforts to promote greater environmental responsibility;
• Principle 2: Reduce overall climate impact;
• Principle 3: Educate for climate action;
• Principle 4: Promote sustainable and responsible consumption;
• Principle 5: Advocate for climate action through communication.

Detailed Challenge Description:

How can the latest technologies such as experience management solutions, digital platforms, analytics, intelligent technologies such as machine learning, blockchain, the Internet of Things (IoT), and geospatial data and software be harnessed to promote new solutions addressing UN Global Goals #13 – Climate Action and the five principles of the Sports for Climate Action Initiative? E.g. visualize areas that are under stress from climate change so that sports organizations can focus investments or creating a platform to showcase sports related climate action champions and quantify the benefits and effectiveness of sports related climate actions.
Step One – Option 3
Topic 3: Fashion + Climate

Problem Statement:

Fashion industry stakeholders have a role to play in reducing climate emissions resulting from their operations, with an awareness that the majority of climate impact within the industry lies in manufacturing of products and materials. All companies within the fashion, retail and textile global value chain, regardless of size and geography, have opportunities to take actions that will result in a measurable reduction in greenhouse gas (GHG) emissions. Actions that reduce GHG emissions are consistent with, among other things, expanding economic opportunity, using resources more efficiently, driving economic competitiveness and innovation, and strengthening resilience.

Detailed Challenge Description:

How can the latest technologies such as experience management solutions, analytics, machine learning, blockchain and Internet of Things (IoT) be harnessed to promote new solutions addressing UN Global Goals #13 – Climate Action and the Fashion Industry Charter on Climate Action? E.g. a platform for sustainable fashion best practices knowledge sharing and visualization of opportunity areas or a community and impact platform.
Problem Statement:

Unsustainable human activities from farming and mining to industry and construction are undermining the productivity of vast areas of farmland, forests and other ecosystems across all continents. This degradation threatens food security, water supplies and the biodiversity upon which human development depends. It drives and is exacerbated by climate change. And it will put the Sustainable Development Goals out of reach unless it is urgently addressed. Restoration to stop and reverse degradation is underway in many places around the world, but must be scaled up dramatically to safeguard livelihoods, combat climate change, and support vital ecosystem services such as the supply of food and water.

Detailed Challenge Description:

How can green nudges around restoration be built into high profile and existing games? How can new principles and approaches be established for how the e-sports sector could support action on this issue?

How can we create a match.com like algorithmic experience that can quickly and seamlessly connect the funding of the donors to a specific location, and help make initiatives and partnerships more productive and efficient, within the gaming space?

How can we show the impact of every-day choices on the forestry environment?
Step Two

a) Register to be a part of the contest on our website by emailing datagenius@sap.com

b) SAP Analytics Cloud for Higher Education as your tool of choice.

c) Find your data, analyze it, and utilize data visualizations on SAP Analytics Cloud as a way to support your recommendations.
Step Three

Write a blog on SAP.com: https://blogs.sap.com/.
To read the sample blog, click here.
How do I submit an entry?
Submissions made by August 28th, 23:59 PST.

1. Register on our website, and then register for an SAP Analytics Cloud for Higher Education.

2. Create a your own private model using your own data.

3. Analyze, visualize, create stories with the model.

4. Present your story as a blog post on SAP Community channel using screen shots of your data visualization.

5. Submit your entry on our Reboot the Earth website.
Write a blog on SAP.com

To add a new blog:

1. Go to https://blogs.sap.com
2. Click Login / Sign-up
3. Create a new profile if you haven’t already
4. Wait for email activation email, accept through the link…
5. Then click “Write a Blog Post”
6. Please include:
   • Reboot The Earth Challenge: [YOUR TITLE]
   • User Tag: ClimateReboot (please press Add)

To read the sample blog, click here.
What are the next steps and prizes?
Next Steps

The top finalist in the Reboot the Earth Challenge will be flown to SAP New York and attend the Award Ceremony at the United Nations Headquarters in New York City.
Prize

First Place

The top finalist in the contest will be able to fly to SAP New York for a two day event, and attend the Award Ceremony at the United Nations Headquarters.

Second Place

Nintendo Switch

Third Place

Bose Wearable Audio Sunglasses
Judging Criteria

Real World Application

Opportunity Identification & Analysis (5)
• Is the analysis used to effectively support climate change and one of the four main topics?
• Are critical insights of the problem relevant and discussed in the presentation?

Strategic Recommendation (5)
• Is the recommendation feasible, realistic and tailored to SAP?
• Does the recommendation follow a logical sequence in addressing the problem identified?

Implementation and actionable (5)
• Are the recommendations feasible?
• Does the recommendation support overall strategy and embody “Intelligent Enterprise”?
• Do the visualizations clearly solve the problems as stipulated by UN Global Goals?
• Is the solution sustainable for long term use?
• Are there obvious problems or issues with the solution?
Judging Criteria

SAP Analytics Cloud Utilization

Technical difficulty (5)
- Do the visuals include variety of charts and tables? (Ideal visualizations include 3 different types of charts or tables)
- How many different visualization methods were used in the story?

Design/User Experience (5)
- Is the visualization easy to interpret?
- Is the user experience intuitive and understandable at first glance?

Originality (5)
- Did the student incorporate new data from other sources?
- Does the story and model contain any additional data, aside from the data provided?
- Were there multiple sources used to gather information?
- Is the use of data and visualizations compelling, unique, and creative?
Judging Criteria

Considerations

1. Novelty and Innovation
   - Does the proposed solution use novel technologies such as Machine Learning, Blockchain etc.?
   - How new and unexpected is the idea?

2. Impact and Relevance
   - How many people could potentially be impacted by the solution?
   - How much of a change can the solution make in peoples’ life?
   - Can the proposed solution make a significant impact on the climate?

3. Scalability
   - Can the proposed solution scale?
   - What technology, cost and infrastructure is needed to scale the solution?
   - How difficult would it be to make the solution scalable?

4. Experience and Usability
   - How intuitive and usable is the solution? Is it understandable?
   - Does the user have a good experience using the solution?

5. Visualization Quality
   - How complex is the SAP Analytics Cloud visualization and story?
   - How clean is the visualization?
Where can I find more information?
Student Resources

Check out some of the helpful videos and data source links below:

SAP Analytics Training Videos

YouTube Channel
Introduction to SAP Analytics Cloud video
Data Preparation in SAP Analytics Cloud video
Introduction to Stories in SAP Analytics Cloud video

Data Sources

Sustainable Development Goals (see Targets and Indicators under each goal)
United Nations Communication Materials (Logos & Pictograms)
World Bank Public Data
Kaggle Data
Other Data Sources
Thank you.