"Using a Tech Tool to Teach About the United Nations Sustainable Development Goals (UNSDGs)"
By Rich Schultz

Video Transcript:
Welcome everyone and welcome to our continuing series here with IMSA on our webinars. 19-19-19 COVIDeo 19 e-learning webinars.

We are bringing you 19-minute webinars held every weekday evening through April.

1900 hours for a total of 19 evenings.

Tonight will be bringing you "Using a Tech Tool to Teach about the United Nations Sustainable Development Goals.

Just in case you were wondering, the PowerPoint for tonight's presentation is located here. It is also located on IMSA's website at their Digital Commons so you can access Digital Commons and be able to have not only the PowerPoint,

but also the transcript

for this webinar tonight.

A couple of housekeeping issues as we get started . All participants are muted and video is turned off.

And we are recording this webinar.

If you do have questions just go ahead and type those into the chat box and will be answered following the presentation.

I will remind you about our "Ask a Specialist" program ifyou have any follow-up questions, make the appointment with one of IMSA's "As a

Specialist" experts.

The one-on-one 30-minute Zoom session with an expert that's in your grade level and field of discipline.

We also have IMSA Snack Boxes which will be posted each week.

They are designed for for teachers and parents and Focus Lessons and activities by grade level, so take a look at those.

Also, our continuing video series. We will be offering these through the month of April We've had such topics already such as Google tools, Zoom, FlipGrid Kahoot!, Biteable, screencasting. We will look at e-assessment and we will give you a schedule for a couple of more that are coming up in the near future: both tomorrow night and subsequent to that.

The URL that you see at the bottom of your screen is where you can

access the information. Here's what it looks like when you go to the e-teaching resources page.

You can see on the left is where you can access 19-19-19 e-learning webinars.

You can also see the event calendar there and you can also access the PowerPoint presentation and transcript

Snack boxes can be accessed their below that.

Again, those are updated each week.

And on the right-hand side is access to our "Ask a Specialist". You can schedule that. You can also click on "Meet our Specialists"

to get an idea of who might be able to provide you with assistance.

Again, the URL is listed there at the bottom of our screen.

Well first of all Happy Earth Day to everyone. Today is the 50th anniversary of the

first Earth

Day held back on April 22nd, 1970.

It was..

basically designed to raise awareness about our role in protect protecting our natural world.

20 million Americans went outdoors. They protested in favor of a more

eco-conscious society. This year,

2020, our theme is global climate change not surprisingly.

So if you're looking for just a couple of resources, here is one: earthdayathome.org. where you can go to that you can take a look at some teach-ins, some

information about food and climate,

protecting our species, pollution, Earth challenges. Things of that sort.

And that goes very nicely with our topic for tonight with learning to teach

with a tech tool addressing the sustainable development goals.

So, after tonight, and watching our webinar here, hopefully you'll be able to explain some details about the sustainable development goals.

You'll access an online tool that

can help with a study platform for presenting and teaching about the SDGs.

And also a social media platform for students, so that they can participate, connect with others, collaborate, hone in on one of their favorite goals to be able to address.

So we'll talk about all of these different topics.

Our core principles here are the United Nations sustainable development goals

being really an integral part of our future development within the next 10 years.

Our students need to learn about these goals

because they're going to be our future leaders. They're the ones that are going to implement the solutions in the coming years.

They have to know about these and already be on board to being engaged in addressing these goals.

And I think it's important also to speak a little bit to the language of our students using social media and an approach that can help our students to be able to use their skills and social media to be able to help collaborate and address others and connect with them to be able to address thesegoals.

So if you are unaware or are not sure about the United Nations Sustainable Development Goals,

there is an agenda for 2030

for all nations, 192 nations across the world, to be able to address 17 goals by the year 2030.

The 17 goals are a call for all the nations of the world to come together, work collaboratively.

to develop a global partnership and address all of these. And as you take a look at some of these goals,

They are quite ambitious. We're looking at things such as zero hunger,

good health and well-being is goal number 3.

Very, very

timely in this time during our virus and the pandemic that is occurring.

Quality education for all.

It was really speaks also as part of these goals to our lens of equity. Gender, gender equity is goal number five, for example.

And being able to address not only our Earth,

such as goal 13, with climate climate action.

Number 14: Life Below Water. 15: Life on Land.

But to be able to work for

a society that can work together and reduced inequalities and gold number 10 has been set forth.

So it's a variety of different goals.

Very ambitious to meet these goals by 2030.

The goals are a call to action essentially to have things like I mentioned to end poverty, to protect the

planet

and that all of society can enjoy working together in

a state of peace

and ultimately a state of sustainability and prosperity.

The tools that will look at tonight here very quickly are ArcGIS Online and a

app. An online app called "SDGs in Action".

ArcGIS Online is a free tool that can be used with any device.

It's very good for visual learners and I would argue that it promotes equity and diversity by involving many different types of students.

And taking a look globally at different perspectives to address some of these goals

including the inequalities that we see.

"SDGs in Action", as I mentioned, is an app and uses social media to allow users to be able to make connections on a global basis.

Concentrating, perhaps, on one goal or even more than one goal.

And it includes the latest sustainable development news across the planet

helping all of those participants to see

how innovation is really helping us to be able to achieve all of those goals on a global basis.

So, with ArcGIS Online...

Arcgis.com...

on the lft-hand side there you can see what you would see when you log in for the first time there's a sign in and to create an account, you would see

"create account" on the lower right-hand side of that login screen and I would recommend if your institution does not already have an account,

that you...

create an account in Google if you have access to it.

Probably the easiest way to go about doing it.

And it would say "create a public account".

So a public account is free. Anyone can get that.

There is a way of being able to get an organizational account and I'll talk about that just in a few moments about how any K-12 institution

across the United States can be able to have this software

for free and it's entirely online so there's no installation of software or anything like that.

Once your account has been created and you able to connect, you are able to access lots of different resources.

Something called the "Story Map" and coincidentally, we will actually be talking about storytelling tomorrow night in our webinar.

You can see that the URLs for these resources.

The Sustainable Development Goals story map. We will talk a little about that in our subsequent webinar here.

"GIS for Sustainable Development in Teaching the SDGs, so there is an actual story map or resource,

very similar to an app that helps our educators to be able to use a tool like geographic information systems

to be able to address and teach about the sustainable development

and the SDGs.

I created an exercise here and I'm in the midst of creating exercises for all of the goal using geographic information systems

and for all grade levels. So an example here is one no property is goal number one, "Examining Global Poverty Using the United Nations Sustainable Development Goals".

So there is an exercise where it's literally assembled by cookbook.

It's instructions, one after another, screenshots very easy to follow, but it asks students

to be able to make some observations visually, spatially to be able to think a little bit deeper about some of these issues and I think that's the important part here is that we really want to help our students be able to think deeply.

This is just a close up of what that exercise looks like. As I noted, it addresses "no poverty" which is SDG number one.

The directions are very easy to be able to follow. Step-by-step instructions leads to your final product that you would have here. Lots of questions for deeper analysis. And again, you can customize these. You can add on to them.

Make them more localized as well.

I always teach a little bit about good health and well-being in the courses that I've taught because I think it's important and specifically right now as we're going through this pandemic.

We always go back to mapping the 1854 cholera outbreak because in the geospatial community,

that is seen as one of the first tries

that the notion of using spatial analysis and spatial observation was used to be able to come to a conclusion.

The story goes that in 1854 in Soho in London, there was a cholera outbreak and a famous doctor, Dr. John Snow, was able to make some observations and visually map out where the deaths were and the occurrences were of cholera.

So he was able to map that and

really come up with the origin of cholera. Most physicians at the time, thought it was airborne and Dr. John Snow had a reason to believe that it was not, in fact, that it was waterborne.

And there happened to be a pump that was nearby that was used for water consumption.

And as this map was drawn you can see where the hot spot is right around that pump. And, in fact, in London, if you go there today, that pump is still there. Its called the Broad Street pump.

So I created another exercise here that also addresses good health and well-being and it's very contemporary because it deals with Covid-19.

What I did was, I pulled out some information here, got some data, which you can get concerning all of the

outbreak.

The cases, and the deaths as well as the death rate.

And you can map that in an Excel spreadsheet and pull it into ArcGIS Online to be able to map it.

So we're looking here at Kane County, which is where IMSA is located in Aurora, Illinois. The number of deaths and number confirmed and so forth and we can really start to see some spatial patterns visually that begin to develop.

So, some of the questions that you might dig into a little bit deeper. If the yellow dots are the number of deaths, what does the spatial pattern indicate?

We want students to dig in a little bit deeper and just knowing where people are who

will have contracted the disease and where the deaths have occurred.

The deaths have occurred in several locations. So, why is the death rate in Kane County seemingly higher than most counties in the United States? And it turns out that is actually the situation, that the death rate is somewhere in the neighborhood of about 6.4% in Kane County.

Then,

we can ask our students to speculate on what why that might be? So, this a good way again to help students dig much deeper.

I just pulled this out a few hours ago from the now famous Johns Hopkins dashboard site. And this is the type of thing that you can actually ask students to do.

This was built with ArcGIS.

There's the address for this if you want to visit this on a regular basis, but Johns Hopkins is updating this on a very regular basis.

And the data is all accessible and it's updated every hour.

The second tool that we'll will look at is called "SDGs in Action".

This is a downloadable tool that you can put right on your mobile device. Available in the App Store and the Google Play Store.

Essentially, "SDGs in Action" allows the participant or the user to be able to click on one of the goals and to be able to find out a lot more about it: where initiatives are taking place locally and globally and you can connect with others

that are specifically honed in on a particular goal.

The last one that I'd like to show you here... something that I just added in a little while ago.

It's called the "World's Largest Lesson Plan".

The nice part about this worldslargestlessonplan.globalgoals.org is it allows educators to go in and search for lesson plans by age and discipline. And then it gives them all of the lesson plans there where they're able to go in and teach their students about different goals, different aspects. I think it's a really great resource

for our educators out there to visit this site

and implement or incorporate, some of these very short, but poignant, types of tidbits

to help our students learn about the SDGs.

It includes things like comic books, activities, animated cartoons, and videos. So a very rich resource here being able to access this.

I provided a number of other resources. Again, you'll be able to access all these. All these hyperlinks are active in the .pdf that you'll be able to download.

And

My name is Rich Schultz.

I'm the online learning person at IMSA.

You cans ee my contact information there. I'm from

IMSA's Center for Teaching and Learning.

Please do visit our e-teaching resources. Not only will you find the PowerPoint for this particular presentation, but for a lot of others that we've been doing as part of our 19-19-19.

Tomorrow night, April 23rd, we have "The Art of Storytelling With a Creative Tool", good for all disciplines and all ages.

And on Friday April 24th, you have "Remote Learning or Online Learning What's the Difference?"

Very, very important at this time while we were in virtual classrooms, if you will.

I want to thank everybody for attending this evening and I wish you to be well and visit our resources.

Please also take our survey if you have an opportunity to do that. That URL is very easy to remember.

bit.ly/

191919survey.

If you would do that, we would greatly appreciate it.

We would ask that you fill that form out. Provide us some feedback and we can hopefully bring even more resources that that you're seeking that would help you out in the future.

I want to thank everyone for attending tonight.

And I look forward to seeing you on future webinars.

Thank you so much and have a good evening.