



Learning
by Design

2017



& WalkInto.in

A Medium for Virtual Field
Trips in the Classroom

<https://goo.gl/ava6BI>

Hello and Bonjour!



AGENDA

What / Why Virtual Field Trips?

Why Virtual Field Trips using Street View and WalkInto?

Our Design Project

How to Design a Virtual Field Trip

Applications of Design Project (elementary / secondary / post-secondary)

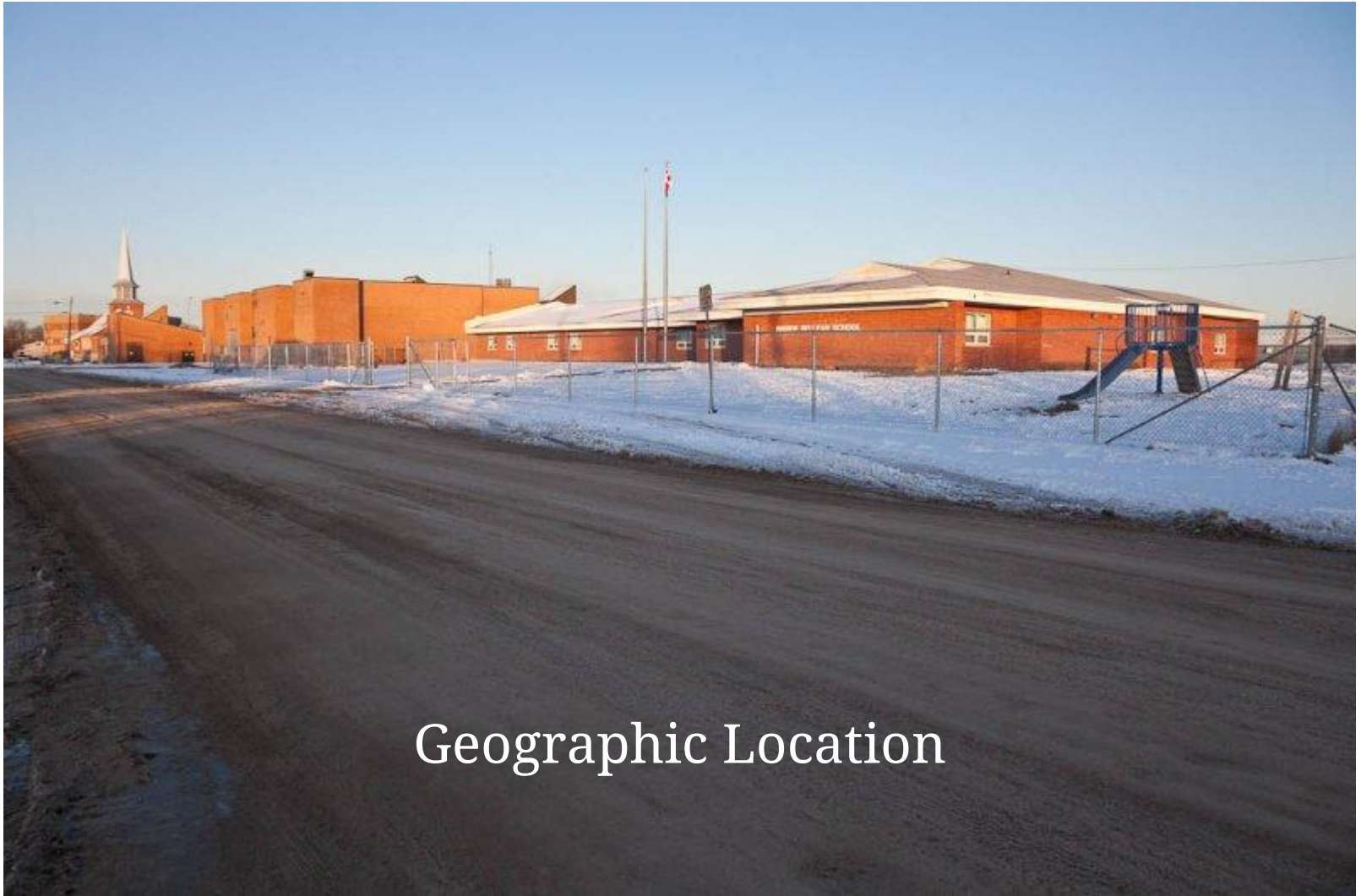
360' Camera, Street View and WalkInto Walk-Through

WHAT is a Virtual Field Trip?

A virtual field trip (VFT) is a technology-based experience that allows children to take an educational journey without leaving the classroom (Cox & Su, 2004). These multimedia presentations bring the sights, sounds, and descriptions of distant places to learners (Klemm & Tuthill, 2003).

WHY Virtual Field Trips?





Geographic Location

WHY Virtual Field Trips with Street View and WalkInto?

Accessible to ALL

Free and User-Friendly

Works with Google accounts

Ability to upload / embed various digital artefacts

Street View and WalkInto are connected

Street View app (iOS and Android) allows users to create photospheres with their phones, publish, and upload to Street View

Our Design Project

Our Design Project

Our project focuses on the use of Google Business View (rebranded Street View Trusted as of September 3rd, 2015) as a tool for creating interactive, audience-responsive, virtual field trips. Street View is an online application and part of the Google Maps suite. It allows users to create 360°, interactive views (or photospheres) of the interior of a Google Maps location. Users are able to navigate through a space and engage with media placed in specific areas using a program called

WalkInto.



Designing a VFT

VFT Design

Identify the curriculum / learning goals for the VFT (choose a topic that will enhance your classroom instruction)

Prepare for the trip (clearly explain your purpose)

Decide how students will participate in the VFT (individual, small group or whole class)

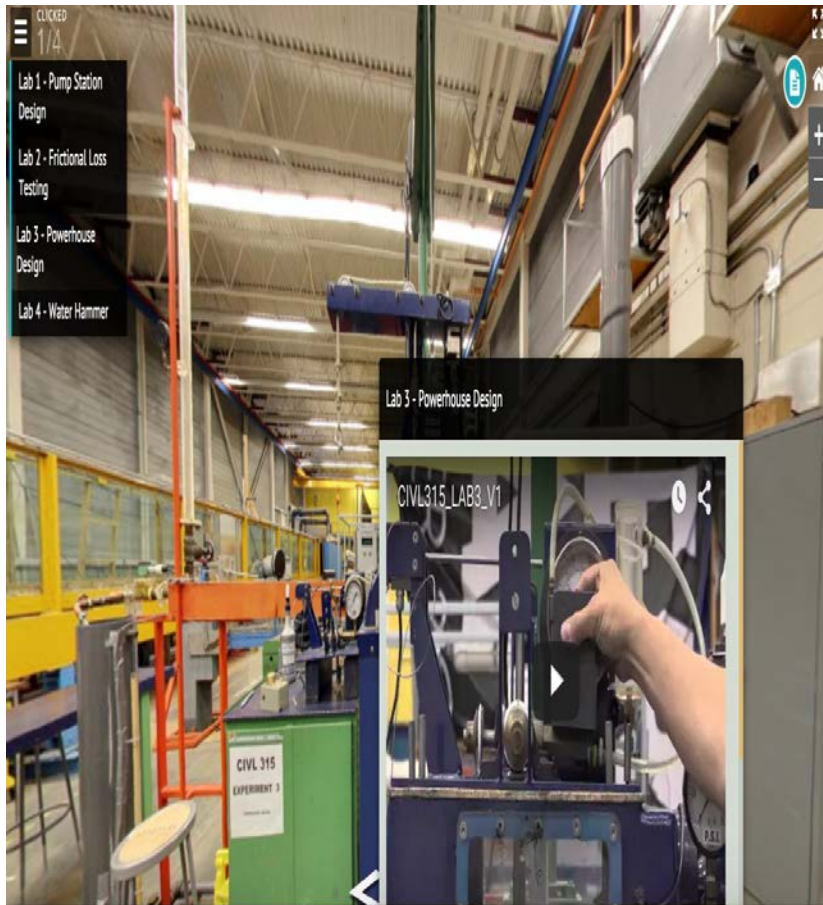
Select a site that you have photo-resources for or can collect

Produce a map/menu of what you want your students to see/experience and how to navigate

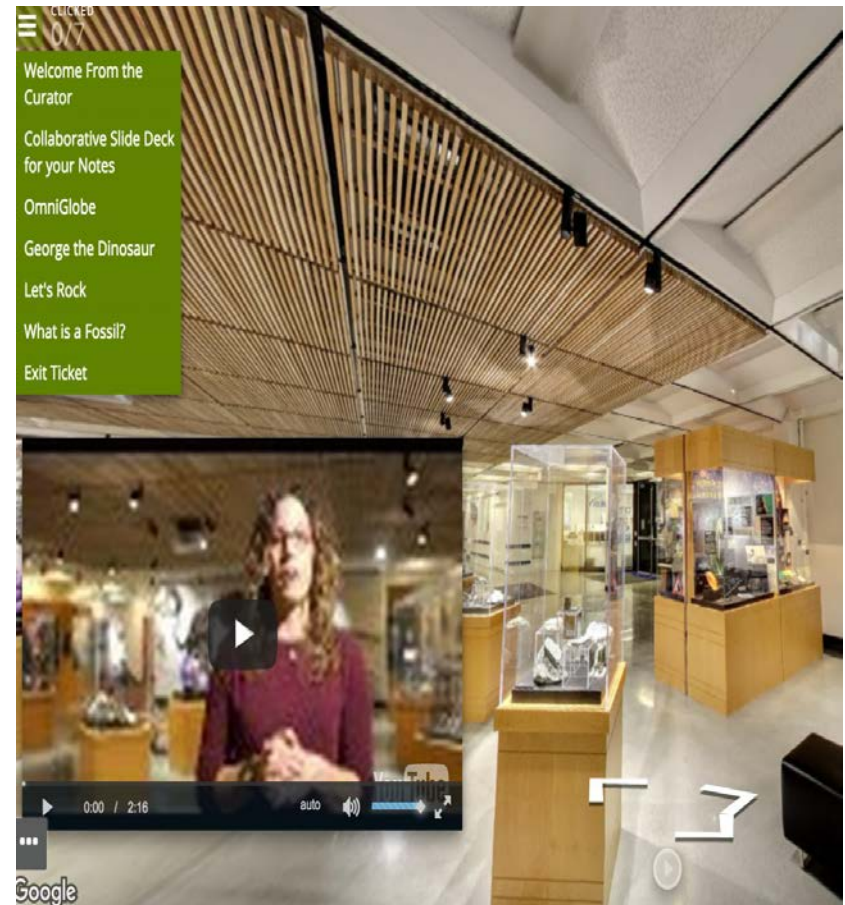
Outline how you want your students to document and communicate their VFT

Elementary and Post-Secondary Applications of Design Project

Some Applications for Post-Secondary and Elementary Students



UBC Dept. of Civil Engineering



UBC Pacific Museum of Earth

UBC Dept. of Civil Engineering Lab Walk-Through

Faculty of Applied Science
Department of Civil Engineering


Home Hydro-Technical Geo-Technical Material Structural

» Faculty of Applied Science » Home » Hydro-Technical » CIVL 315 – Hydro Technical Labs » Lab Walk-Through

Lab Walk-Through

[Back to the lab page](#)

This Walk-Through will orient the student to the Rusty Hut lab equipment, making it easier to operate the equipment. Navigate to each of these in a virtual environment to get familiar with the equipment and learn how to properly operate them. This will contribute to a safe environment. Please refer to the course outline and the TA if there are any further questions. **To go directly to each lab please use the menu on the left or feel free to navigate around.**



“

" [T]hese labs are designed to allow for easy repetition of experiments, students feel less pressure to execute perfectly the first time. In the controlled environments of these labs, students are safe, even if they make an error" (Briggs, 2013)



UBC Labs Survey Results

Number of Civil Engineering Undergrad

Students Polled: **146**

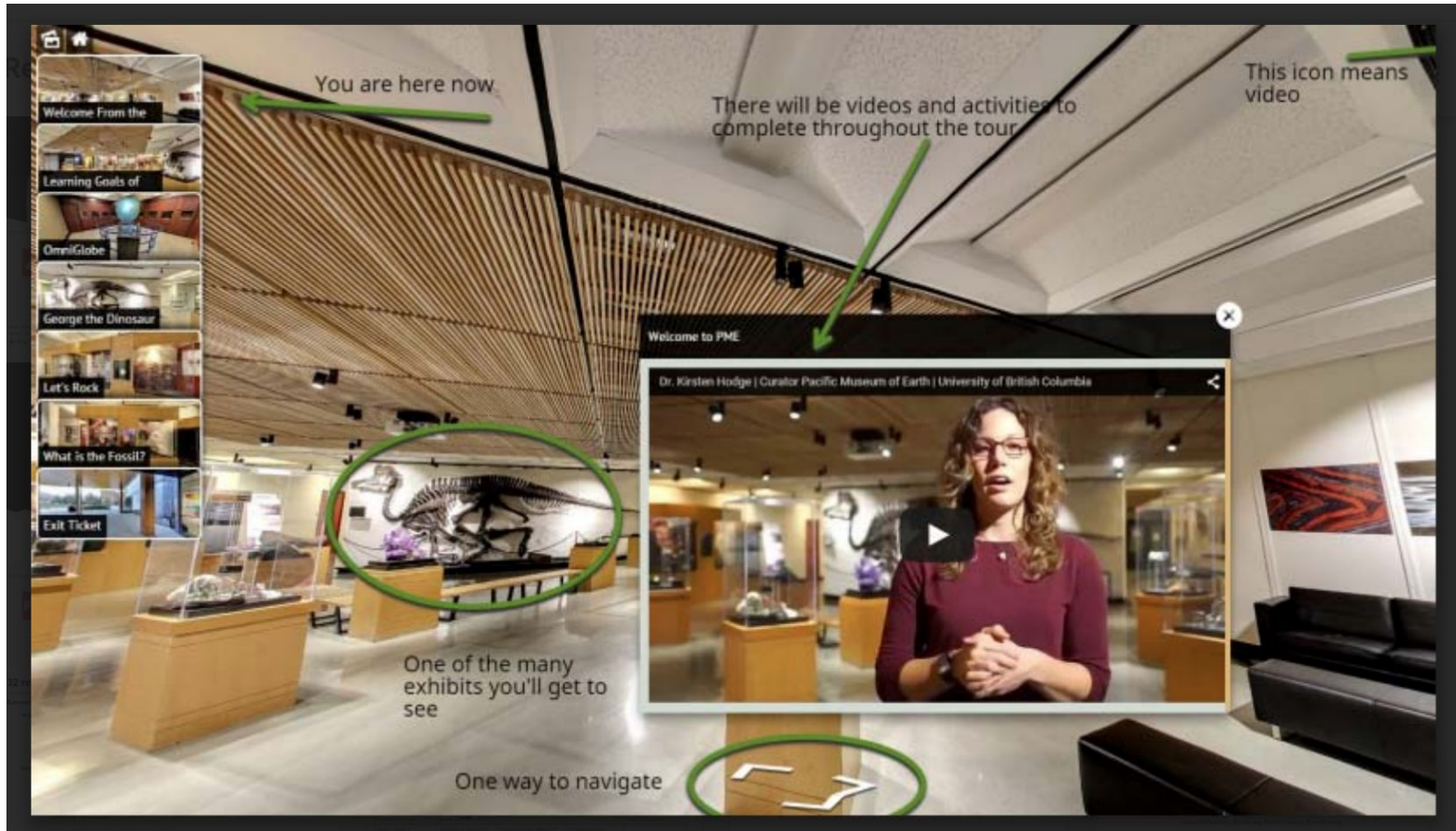
| Sample Questions from Survey | Student Responses |
|--|--|
| The 'walk-through' into the Rusty Hut had all the information I needed to complete the labs. | 3.39 (0.68) |
| The interactivity of the 'walk-through' of the labs was engaging. | 3.56 (0.71) |
| Seeing the inside of the Rusty Hut and the lab equipment in the 'walk-through' made the videos easier to understand. | 3.66 (0.73) |
| Which instructional method did you prefer in your lab? | Paper Only: 19 Paper and Web: 103 Video and Web Only: 17 |

Scale for Questions 1-3: Strongly Agree = 5 ~ Strongly Disagree = 1

“Virtual experiences build more than just conceptual understanding, it increases confidence in [the students’] abilities to do fieldwork.” (Lukes, 2014)



UBC Pacific Museum of Earth VFT



UBC Pacific Museum of Earth VFT Wiki User Guide



Create a New Page
Main Page
Categories
Contents
Recent changes
Help & Support

Wiki Spaces
Main
Course
Documentation
Sandbox
UBC Wiki Books

Tools
What links here
Related changes
Upload file
Special pages
Printable version
Permanent link
Page information
Embed Page

Documentation Discussion

View

View source

History

Search



Documentation:Google Business View/Case Study 2

< Documentation:Google Business View

Contents [hide]

- 1 The Pacific Museum of Earth Virtual Field Trip
- 2 Intended Audiences
 - 2.1 Public School Teachers
 - 2.2 Museum or Library Educators
 - 2.3 Parents
 - 2.4 Learners
- 3 How to Use the Virtual Field Trip
 - 3.1 Software Requirements
 - 3.2 Navigating Through This Virtual Field Trip
 - 3.3 The Pacific Museum of Earth Virtual Field Trip
- 4 Learning Objectives
- 5 Curriculum Expectations
- 6 Activities
 - 6.1 PRE-VFT: ACTIVATION
 - 6.2 DURING VFT: STUDENT NAVIGATION
 - 6.3 POST-VFT: EXIT TICKET / STUDENT REFLECTION
- 7 Accommodations: Reaching All Learners
- 8 Assessments
- 9 References

The Pacific Museum of Earth Virtual Field Trip

The Pacific Museum of Earth is a small museum containing geologic samples which is an effective science based learning environment for a Virtual Field Trip of grades K-12. We have embedded education resources including: an introduction video by the curator, Google Slides to allow students to document their experiences, Google Forms to evaluate the students' experience, Wikipedia articles describing exhibits and YouTube videos also describing exhibits. Embedding these media shows the dynamic ability of Google Business View as an education learning environment.

Access to the Pacific Museum of Earth:

https://walkinto.in/tour/e11HQx_lhggJx8S7luehl

The link to the Pacific Museum of Earth VFT can be posted to Google Classroom (or any LMS). Google Classroom is part of the Google Apps for Education suite, and many school boards are utilizing these products. Google Classroom can be accessed here, if you have a Google for Education account: [Google Classroom](#)

PME VFT Survey Results

Number of Grade 5 Students Polled: **19**
(so far)

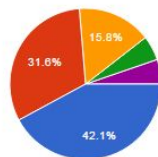
UBC Pacific Museum of Earth Summary of Responses

Summary

Choose one exhibit you liked the best and explain what you learned about it.

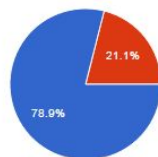
| |
|---|
| its awesome |
| Dino |
| I personally like the what is a fossil part of the tour because I'm really interested in that kind of stuff and it was really cool! |
| OmnIGlobe |
| it was awesome |
| The exhibit that I liked the best was the gift shop because there was this big rock that was so cool. |
| lets rock |

What did you like most about the virtual field trip?



| | | |
|---|---|-------|
| The 360° tour and using the arrows to move around the museum | 8 | 42.1% |
| Watching the video(s) / learning about the different exhibits | 6 | 31.6% |
| Collaborating with your classmates during your tour | 3 | 15.8% |
| Using Google Apps to help you show your thinking | 1 | 5.3% |
| Other | 1 | 5.3% |

Please choose one of the following options to rate the virtual field trip.



| | | |
|--------------------------|----|-------|
| I loved it! | 15 | 78.9% |
| I liked it! | 4 | 21.1% |
| I thought it was okay. | 0 | 0% |
| I didn't like it at all. | 0 | 0% |

If you did not enjoy the tour, please tell one thing you did not like about it and what you would change!

| |
|---------------------|
| I liked everything. |
|---------------------|

78.9% of Grade 5 students **loved** the tour.

21.1% of Grade 5
students **liked** the tour.

When asked, “What did you like most about the virtual field trip?”, **42.1%** of respondents said “The 360' tour and using the arrows to move around the museum”, and **31.6%** said “Watching the video(s) / learning about the different exhibits”.

#walkwithusproject

**An Application of our Design
Project for Secondary Students**

What is Walk With Us Project?


We are making publically accessible virtual tours using panospheres the students capture of their home communities. These are: **Peawanuck, Attawapiskat, Fort Albany, Kashechewan, Moose Factory / Moosonee, Constance Lake and Mattagami First Nation.**

These tours will serve as digital artefacts to raise public awareness of Indigenous issues, spread positive messages of hope, and help to dispel myths.

How Walk With Us Began...



Moosonee, ON, Canada



Moosonee
Ontario
Canada

Mostly Sunny · -3°C
6:55 PM


Directions

SAVE NEARBY SEND TO YOUR PHONE SHARE

Photos

Quick facts

Moosonee is a town in northern Ontario, Canada, on the



Moosonee

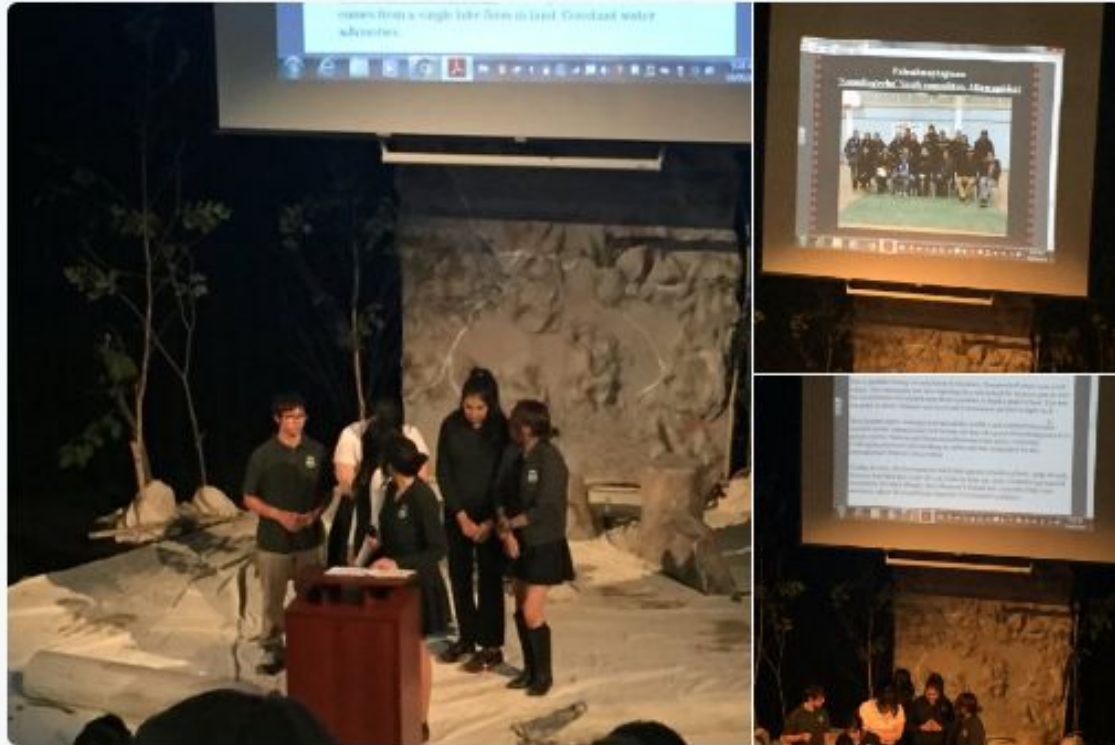
Earth Moosonee Moosonee Moosonee Moosonee

Map data ©2017 Google Terms maps.google.com Send feedback 10 km



Melissa Lavoie @MelizzaLavoie · May 11

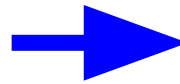
Brave youth speaking from their hearts about the #Attawapiskat crisis at O'Gorman High School yesterday. @NECDSB



How did Google Earth Outreach hear about us?



 **Melissa Lavoie** @MelizzaLavoie · Jul 3
“Walk With Us” receives funding from OTF!
adventuresineduteching.com/2016/07/03/wal...



 You Retweeted
Walkinto @walkintodotin · Jul 3
We are so happy to see meaningful projects like these using WalkInto. Thank you @MelizzaLavoie and all the best!

A Kids' Guide Canada @akgtCanada
Thanks for RT @jacbalen Been pondering connections for HS kids. ie @MelizzaLavoie working with FN kids with streetview... the possibilities!!

You Retweeted
 **Sean Robinson** @sr_tutor · Jul 3
First Peoples youth to share their stories thx 2 @MelizzaLavoie w/ @otffeo @walkintodotin @TheCXP @akgtCanada



“Walk With Us” receives funding from OTF!
!!!! When this idea first hatched, I had been promoting Google My Maps to students and teachers at Bishop Belleau School in Moosonee, Ontario and St. Patrick S...
adventuresineduteching.com



News travels fast...

You Retweeted
 **GoogleEarth Outreach** @earthoutreach · Jul 11
Awesome and innovative application of #Google Street View Imagery in the classroom @MelizzaLavoie! #GAFE #Inspired
goo.gl/CELhCa

Documenting / Sharing our Journey...

Google Sites

[Walk With Us Website](#)



digital
HUMAN LIBRARY™

[Social Innovation Project](#)



[#walkwithusproject](#)

[@WWUProject](#)

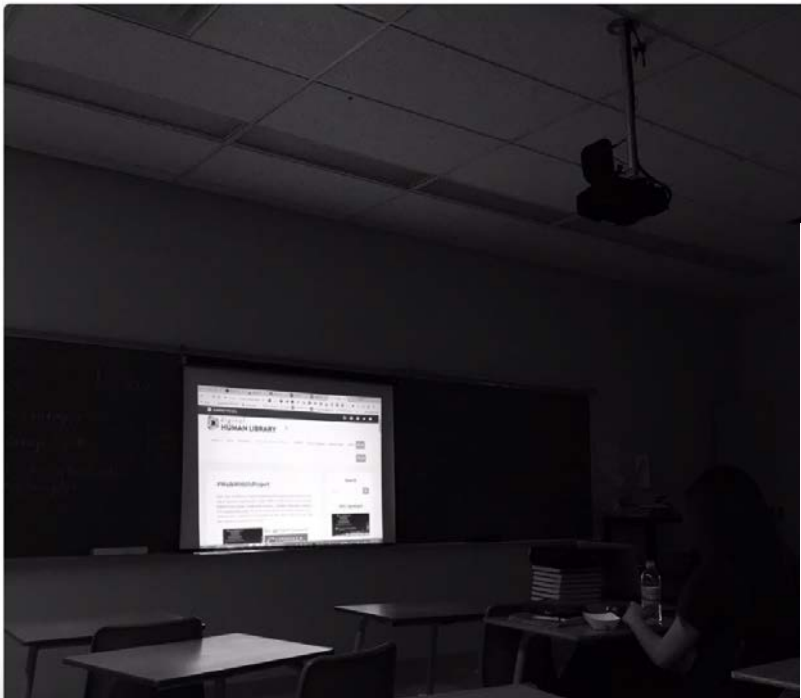


Jan 17

We're on the web

👀👀👀

#walkwithusproject



Student tweets

6 Dec 2016

#walkwithusproject #neebin

Walk With Us @WWUProject
Our new logo! Tku #Neebin! Footprints represent following the steps of our ancestors, & colours rep medicine wheel & FNMI communities.

1

22 Nov 2016

Proud to be apart of this project :)
#walkwithusproject

1 1 7

Walk With Us liked

15 Dec 2016

It's #walkwithusproject time! @walkintodotin training 🤖

2 5

How we stay organized...



My Drive > WALK WITH US PROJECT 2016-17



| | | | | | |
|------------------------|----------------------|-----------------------|--------------------------|---------------------|-------------------------|
| Google Space (disco... | LOGO | Pictures and Video | 360° Images | WWU CLUB MEETIN... | Schoolu VR in Classr... |
| TLC TEAM MEETING... | WWU Funding and C... | Reimbursement of E... | User Guide: Street Vi... | WALK WITH US PAR... | OTF FILES |
| UBC MET 510 PROJ... | ADMIN | Helen | Vicky | WWU Consent Form... | Sarah D |
| Kara H | Neebin P | Koral S | Christiana B | Aaliyah N | Ashley G |
| Kanita S | Natalie S | Julian L-Q | Jessica A | Nikita F | Christina H |
| Reeta K | Dawn I | Cedar I | Alex M | WWU Attendance | Reference Materials |

Files

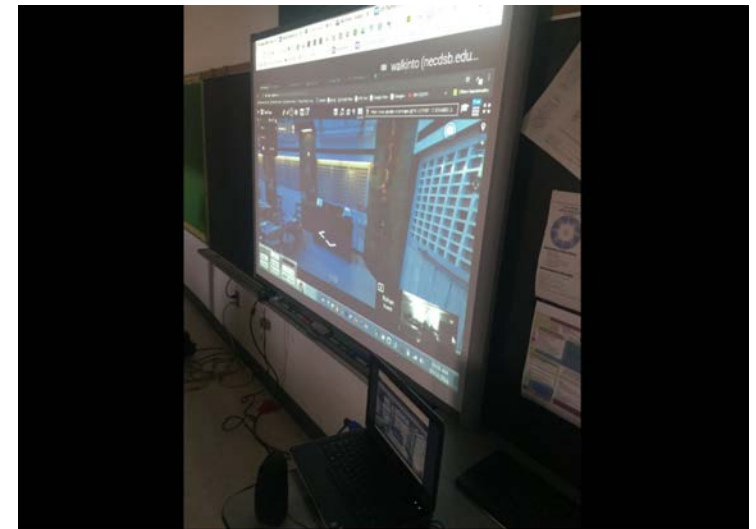
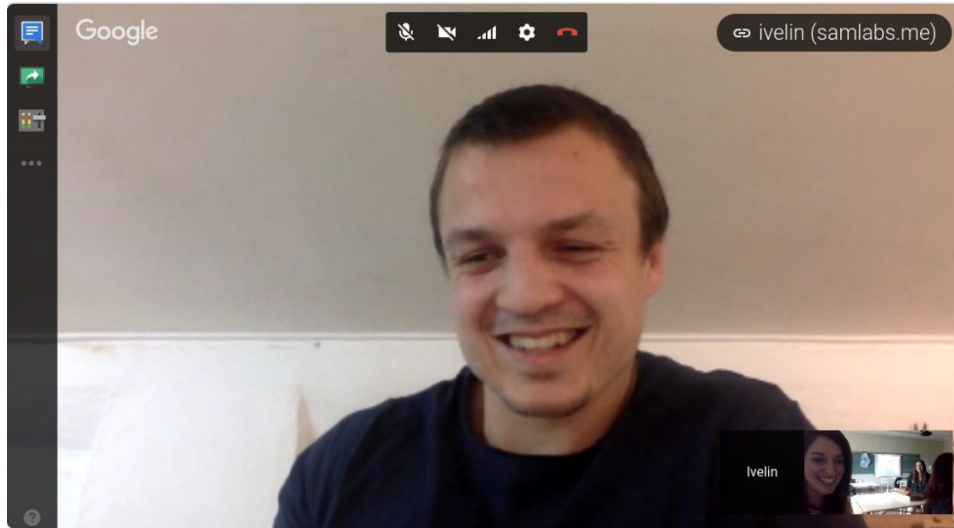
| | | | | | |
|--------------------------------|----------------------------|------------------------------|-------------------------------|----------------------------|---------------------------|
| <p>Walk With Us Project...</p> | <p>1507558153746406...</p> | <p>Walk With Us Camer...</p> | <p>Letter Home Parent ...</p> | <p>FEBRUARY / MARCH...</p> | <p>ATTENDANCE TRAC...</p> |
| <p>Walk With Us Project...</p> | | | | | |

How we keep informed...



A screenshot of a social media or community page interface. At the top, there is a dark banner with a background image of people in a wooded area. Overlaid on this banner are five circular profile pictures of users: Melissa Lavoie, Kim Meunier, Laura Kelly, Kristine Arthur, and Chandra Ciccone. To the right of the banner, there are links for "Select theme" and "Upload photo". Below the banner is a navigation bar with three tabs: "STREAM", "STUDENTS", and "ABOUT". The main content area is divided into three sections. On the left, there is a box with the text "No work due soon" and a "VIEW ALL" button. Below this is a "TOPICS" section with a question mark icon and the word "Agenda". In the center, there is a "Saved posts (1)" section with a dropdown arrow. Below this, a post by "Melissa Lavoie" dated "Mar 16" is visible, featuring a profile picture and a three-dot menu icon. The post text reads: "Hey artists! Google is holding a contest for Canada's 150th - design the Google doodle for this special year in Canada's life! How cool would this be.... ;) Details are below!". On the right side of the main content area, there is a dark circular button with a white plus sign (+).

Our weekly meetings



Melissa Lavoie @MelizzaLavoie · 15 Dec 2016
Today's #walkwithusproject meeting: Rohan from @walkintodotin trained Ss on virtual tour building software. What an amazing session!
pic.twitter.com/UbuCSkTxMK



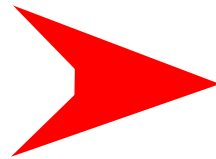
Our First 360' Image Capture Trip



Our Second 360' Image Capture Trip



Neebin's Walk With Us Logo



Some Challenges

Learning Curve

Attendance (in school)

Communication / building relationships

Time / weather / transportation

NCDSB's Coverage Map

Aboriginal Student Connections

Aboriginal Liaison

Resources Page

Coverage Map

Contact Us

Self Identification



Student News and Event

Our Partners



Google Earth Outreach

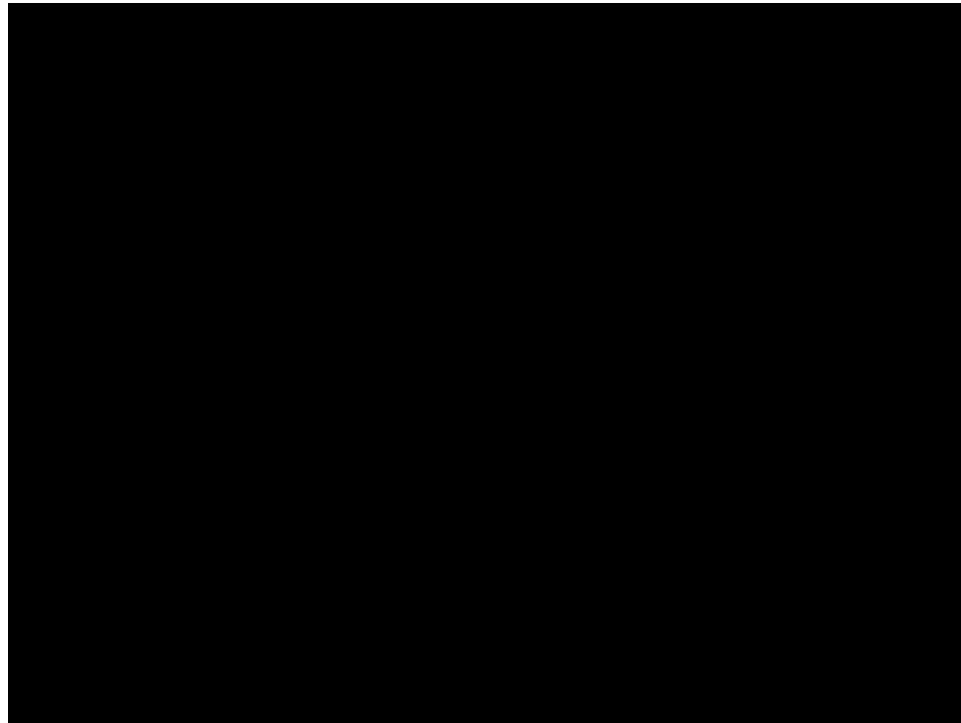


Walk
Into



digital
HUMAN LIBRARY™

Boni Gopalan from WalkInto: Walk With Us Project Credits, Support and Training



Neil Cariani (CreativeXistence360): Editing Photospheres and Training



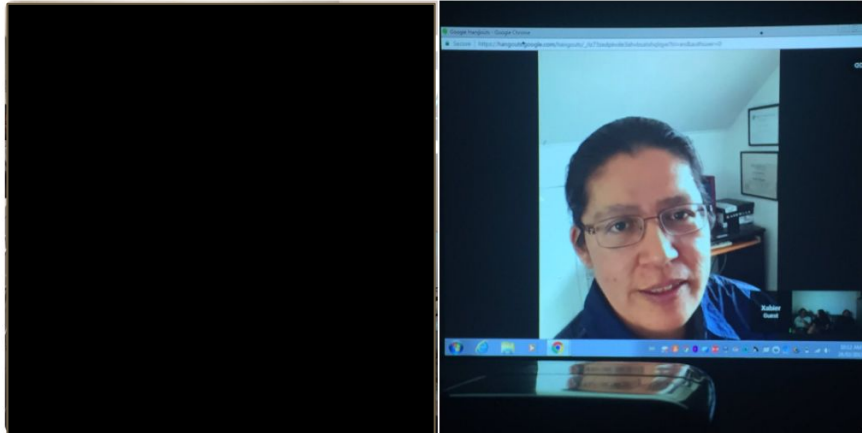
Storytelling Series

Storytelling Series



Melissa Lavoie @MelizzaLavoie · Feb 24

Xavier: Ss stories published online - after 1,2,3 yrs..something magical happens...these stories become history.
[#walkwithusproject](#) @CanGeo



🔄 1 ❤️ 3 📺

Xavier Kataquapit, First Nations Cree Author from Attawapiskat, Ontario
[“Under the Northern Sky”](#)

Storytelling Series



“Thought you and your students would appreciate this ... Here is my setup for the morning, smartphone on a tripod, back light umbrella, sat next to bright window, so lots of light to make a good presentation...!”

Xavier Kataquapit

Storytelling: Artefacts

Recorded interviews with Elders, family and community members

Art

360' pictures and videos

Personal stories

Audio files

The Technology (a supporting role)

Ricoh Theta S 360' Camera



Grifiti Nootle iPad mini Tripod Mount & Stand



Cameron Tripod and RT Hard Case



List of Equipment

Ricoh Theta S Digital Camera

https://www.amazon.ca/gp/product/B014US3FQI/ref=ox_sc_sfl_title_1?ie=UTF8&psc=1&smid=A3DWYIK6Y9EEQB

Grifiti Nootle iPad mini Tripod Mount and Stand

https://www.amazon.ca/gp/product/B00B6VU46W/ref=ox_sc_sfl_title_2?ie=UTF8&psc=1&smid=A3URJQ3Q0L4Y67

Cameron T100BH Tripod

<http://www.henrys.com/86594-CAMERON-T100BH-TRIPOD-W-BALLHEAD.aspx>

Ricoh TH-1 water resistant hard case

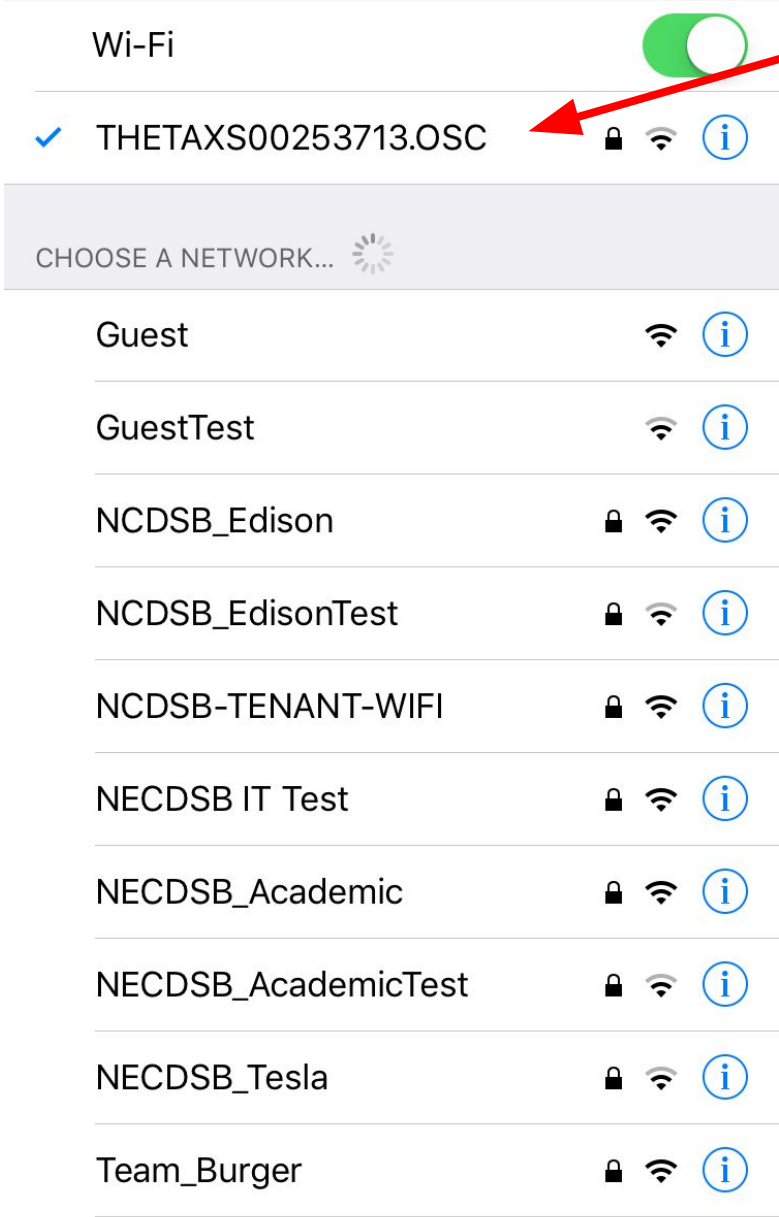
https://www.amazon.ca/gp/product/B014D22OSQ/ref=ox_sc_sfl_title_3?ie=UTF8&psc=1&smid=A3DWYIK6Y9EEQB

How to connect your phone to an external 360' camera (to take pictures remotely)

Turn your camera on (power button on side)

You'll see a Wifi symbol on the front





In your Wifi settings you will see your camera's network starting with THETAXS. Select this network. It will prompt you for a password.



Check the bottom of your Ricoh Theta S camera. The numerical portion will be your Wifi password! For example, one of our cameras is: **00224135**

Once you're connected to Ricoh's wifi, open

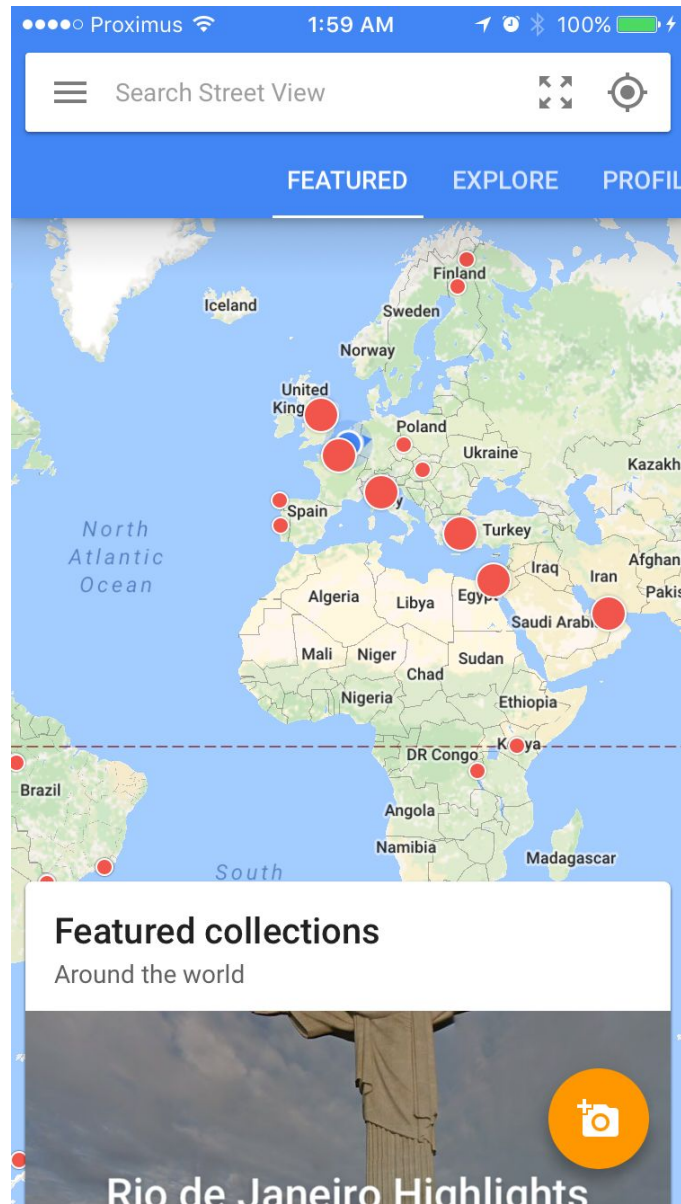


You should see this screen when you are connected:



The camera icon will be **BLUE** when connected to an external 360 camera.

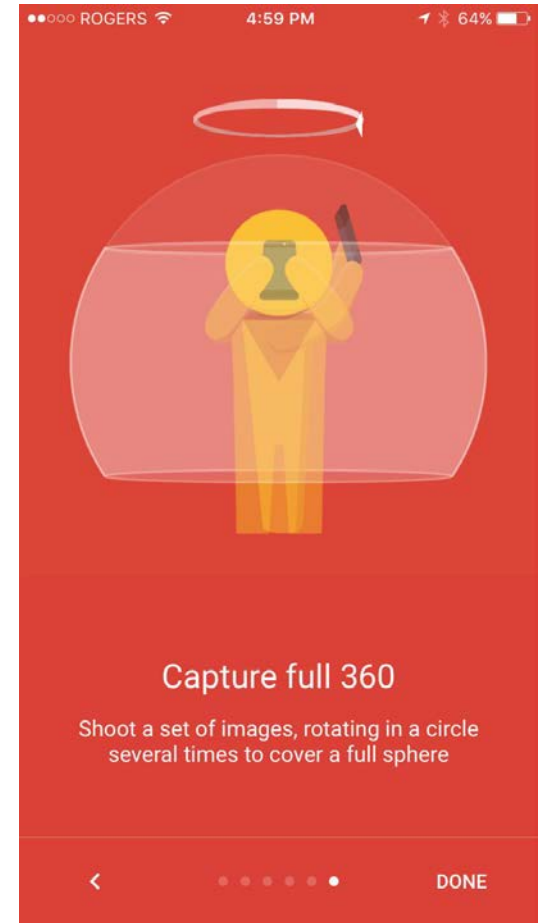
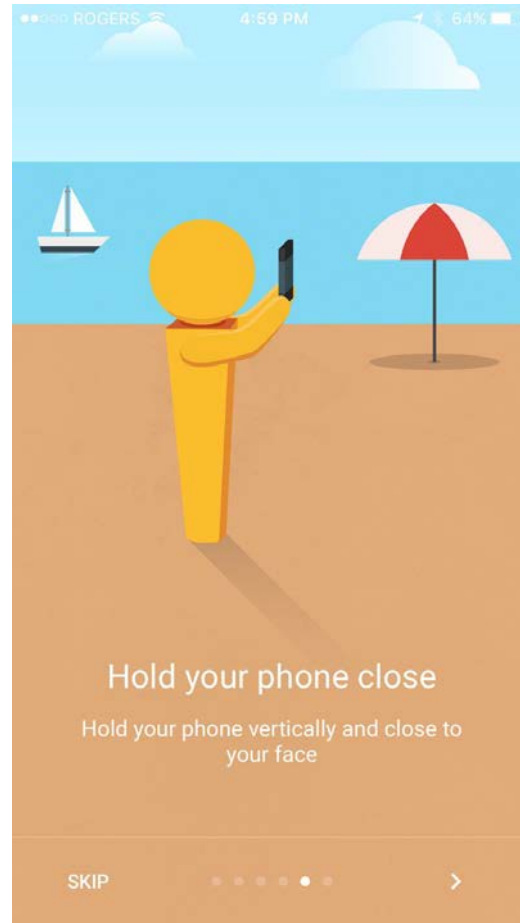
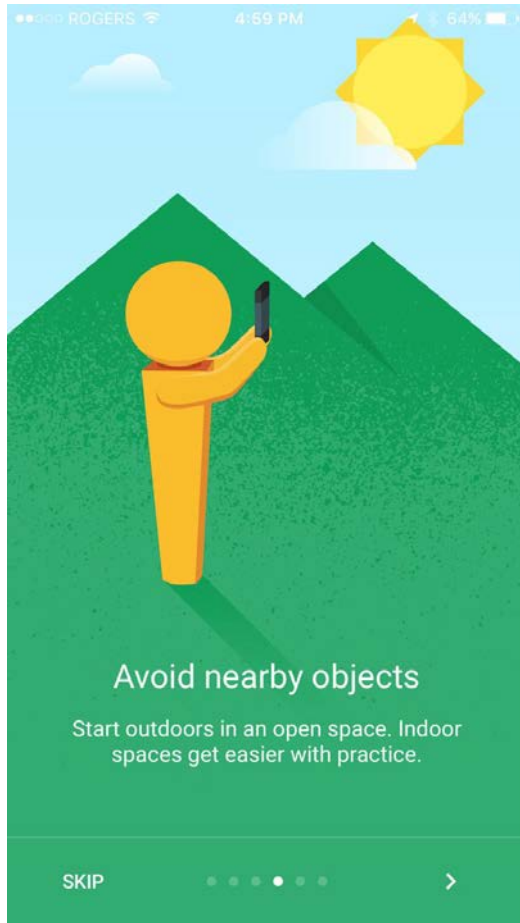
If you are taking a picture with the Street View app only, the camera button will be **YELLOW**.



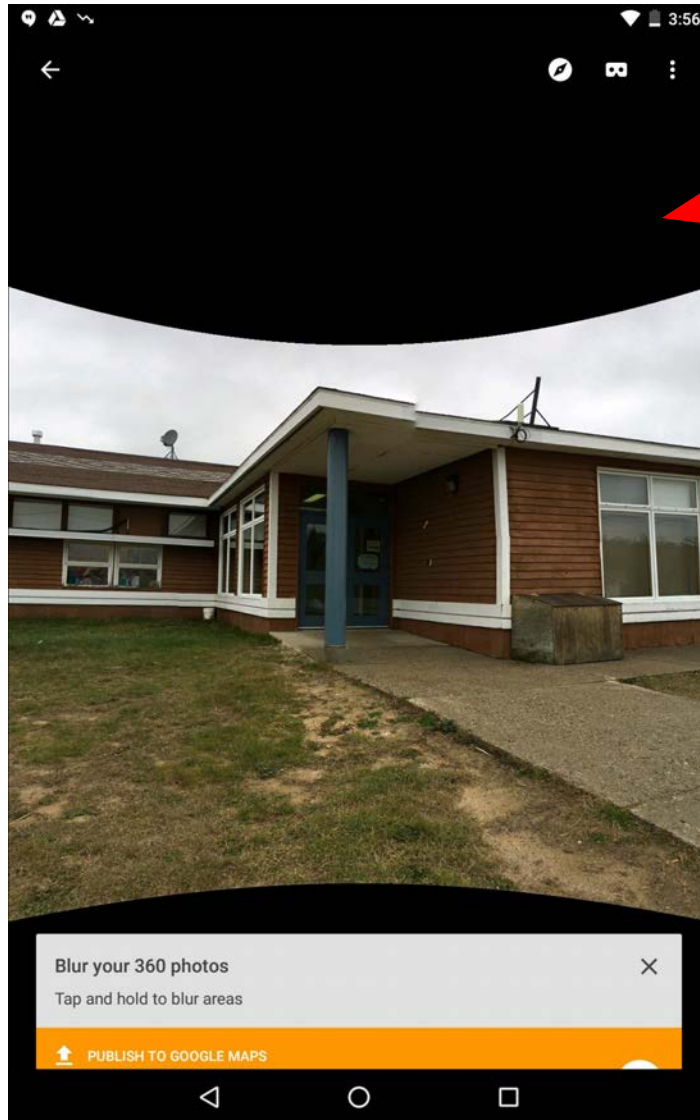
The camera icon will be **YELLOW** when not connected to an external 360 camera.

**You can also use your phone
to capture 360' images using
the Street View app!**

When capturing a 360' image with the Street View app, do this:



Otherwise you'll end up with this....



360' Photography Tips

360' Photography Tips

1. If you are using a tripod and capturing your images remotely, try to “hide” so that you’re not in the images.
2. Keep the camera level.
3. Capture your images in good light.
4. Be aware of shadows that the camera and tripod are creating due to the sun.
5. Make sure that the fish eye lens is approx. 5 ft. / 1.5 m from the ground.
6. If you want to “advance” in a scene with arrows, pictures should be taken 3 m apart and with a clear line of sight so that the panoramas can be properly stitched.

Nailed it.



Let's take some pictures

International School of Brussels

4.7 ★★★★★ · 23 reviews

School

Directions

SAVE NEARBY SEND TO YOUR PHONE SHARE

Kattenberg 19, 1170 Watermael-Boitsfort, Belgium

isb.be

+32 2 661 42 11

Suggest an edit

Add a label

Earth

International School of Brussels

International School of Brussels

International School of Brussels

International School of Brussels

Map data ©2017 Google Terms Send feedback 200 m

International School of Brussels

Let's try WalkInto

Sign in with your Google account (or Join!)
and create a tour from your dashboard

Import URL and/or search for a place on G
Maps

Give your tour a title and choose a theme

Create a “focus” hotspot (YouTube or
information tour card)

Preview (publish another day)

Can you think of applications in your own classroom? Outside of it?

Any questions / thoughts?

Thank you!

Links

WalkInto Sample Tour (UBC PME):

https://walkinto.in/tour/e1IHQx_lhggJx8S7luehl

Teacher Guide:

http://wiki.ubc.ca/Documentation:Google_Business_View/Case_Study_2

Washington State University Slides:

<https://goo.gl/g31aFN>

My Blog:

<https://adventuresineduteching.com/>

WalkInto Support (FreshDesk):

<https://walkinto.freshdesk.com/support/home>

Google Maps / Street View Support:

<https://support.google.com/maps/?hl=en#topic=>

Other VFT Applications

Applications such as [Google Expeditions](#) and [Nearpod VR](#) provide students with thoughtful and engaging content for VFT consumption in the classroom. The key difference between WalkInto and these applications is the fact that **any end user will be able to use Street View to customize their own VFT's**. Other software such as Google's [Story Spheres](#) (beta) also allows the end user to create immersive virtual reality experiences, but with audio only.

This is important from a constructivist perspective: ***“(The VLE) will enable users to explore freely, browse at their own pace, interact with online content, share experiences with others, and expand their understanding”*** (Canadian Heritage Information Network, 2014).

Google launched “[Google Expeditions](#)” back in September 2015. You probably know that it is a virtual reality VFT teaching tool built with Google Cardboard. The content is already made and ready to consume.

WalkInto is also currently developing stereoscopic technologies to connect with tools like Google Cardboard, and tours are now VR-enabled! This means that teachers and students can actually produce virtual tours that can be viewed and interacted with through VR goggles!



Let's Play!



Google Local Guides

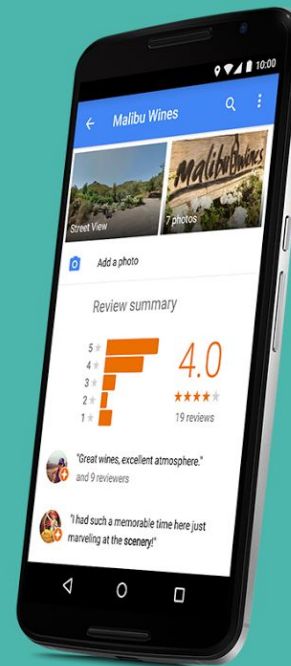
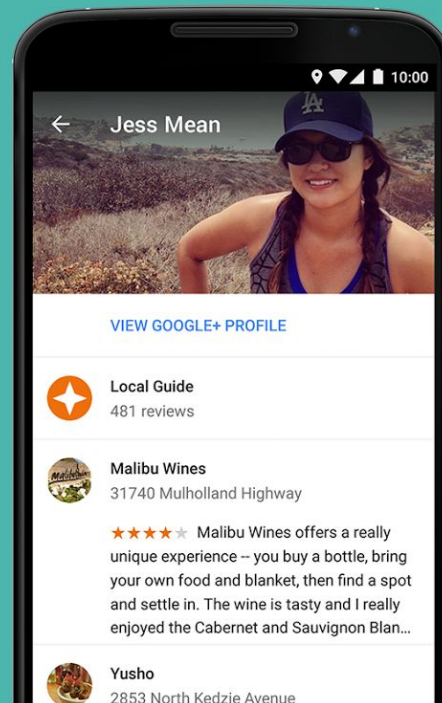


Google Maps ▶ Public

Jan 15, 2015



+Local Guides know local places like no other. Join this community of explorers and share your discoveries with the world on +Google → goo.gl/ovGEYq





Google Street View and WalkInto: A Medium for Virtual Field Trips in the Classroom by [Lavoie, Melissa; Pattern, Alison; Rogic, Novak](#) is licensed under a [Creative Commons Attribution-NonCommercial 4.0 International License](#).

A Learning
Conference
at ISB
17-19 March

Learning by Design

2017

Engage. Connect. Innovate. Empower.



@MelizzaLavoie