



The Future is Immersive

Bringing AR & VR to campuses and classrooms

Introduction



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Agenda

- Overview of concepts and trends
- Immersive tech & education
- Practical tips and best practices for running VR and AR projects
- Accessibility best practices
- Return on immersion
- Q&A

Define Augmented and Virtual Reality

Immersive spectrum

Can bring anything to you



Augmented Reality

Can take you anywhere



Virtual Reality

Reality

Real world

Computer-generated

VR

171M active users

2016: \$2B

2022: \$15B



AR

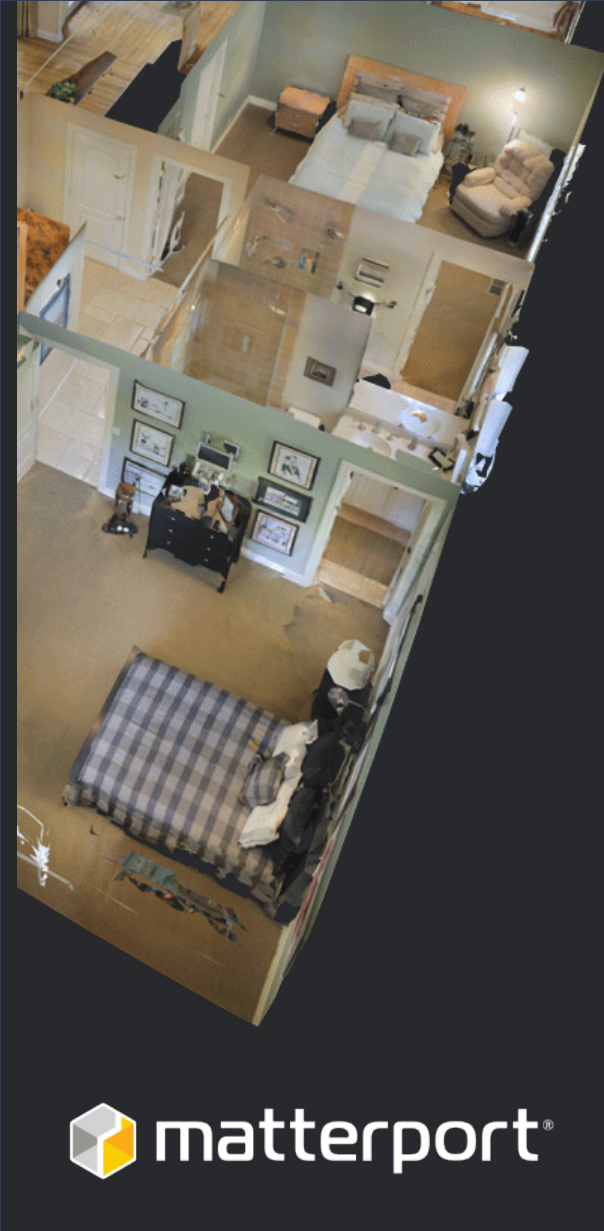
200M active users

2016: \$4B

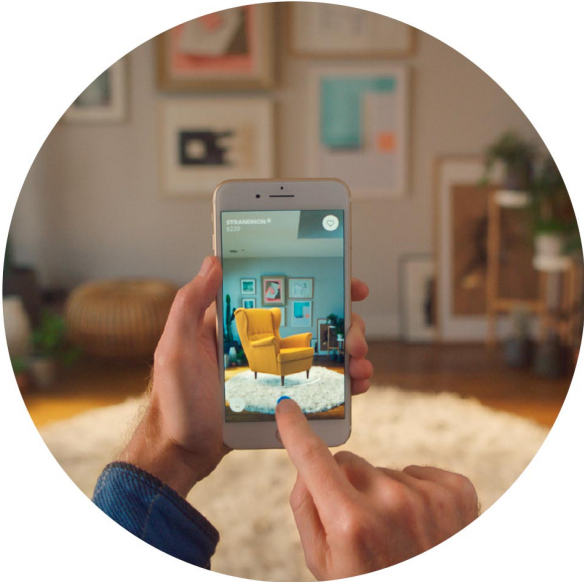
2022: \$90B+



VR technology we see everyday



AR technology we see everyday



[Video](#)



WebXR “Magic Window”

WebVR API

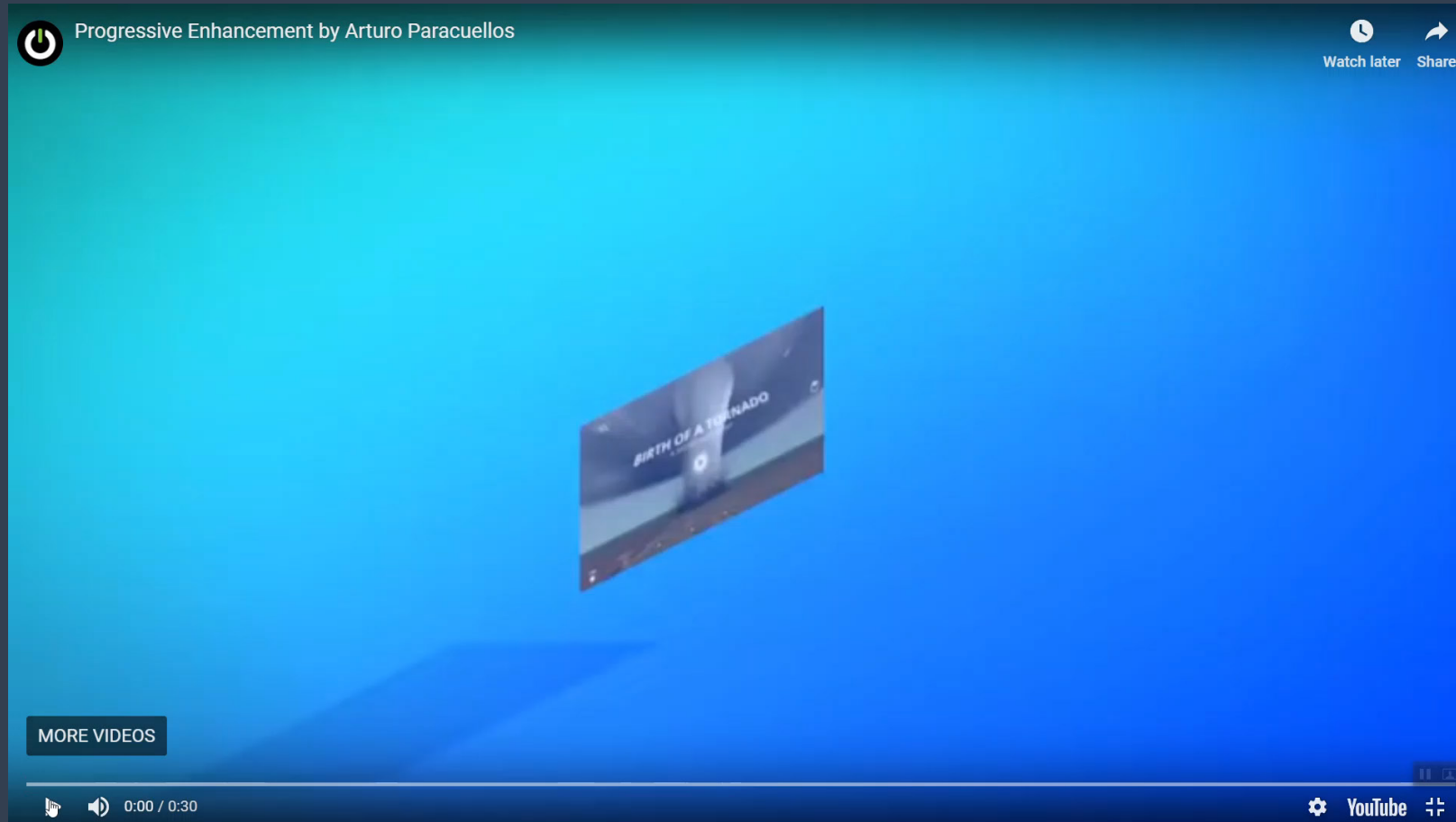
VR Polyfilled

2D desktop screens

2D mobile screens

Audience

Magic Window





Immersive Technology & Education

Connecting immersive tech + education

Education

Building skills through experience

VR/AR

Repetition without risk (learn by doing)

Better sense of place

Scale experiences

Visual learning

Trades

Finishing techniques in VR

Real tool – spray gun

Zero paint, furniture waste



Medical training

Risk free repetition

Safe environment, no consequences for errors

Improved accuracy by 20%



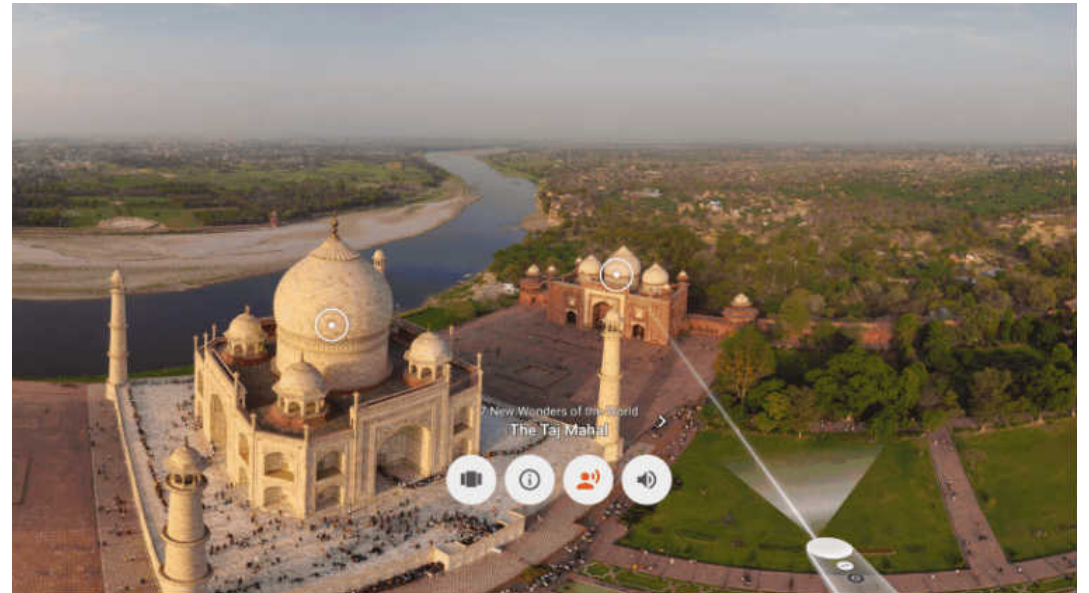
Google Expeditions

Exploring historical places with
Google Headsets

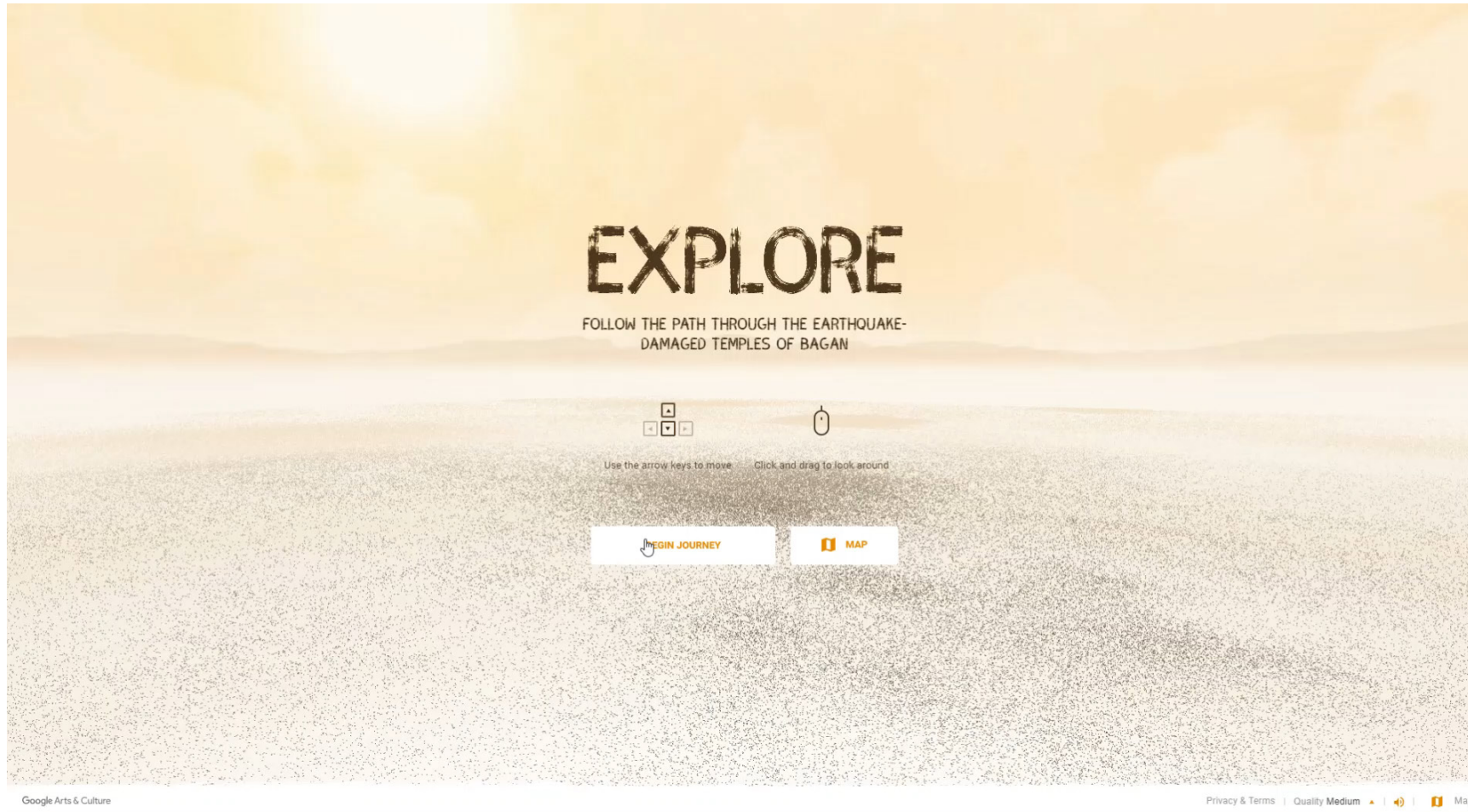
360° imagery and video

Collaborative environment

1MM+ students experienced in
11 countries



Exploring 3D temples in 3D + 360°

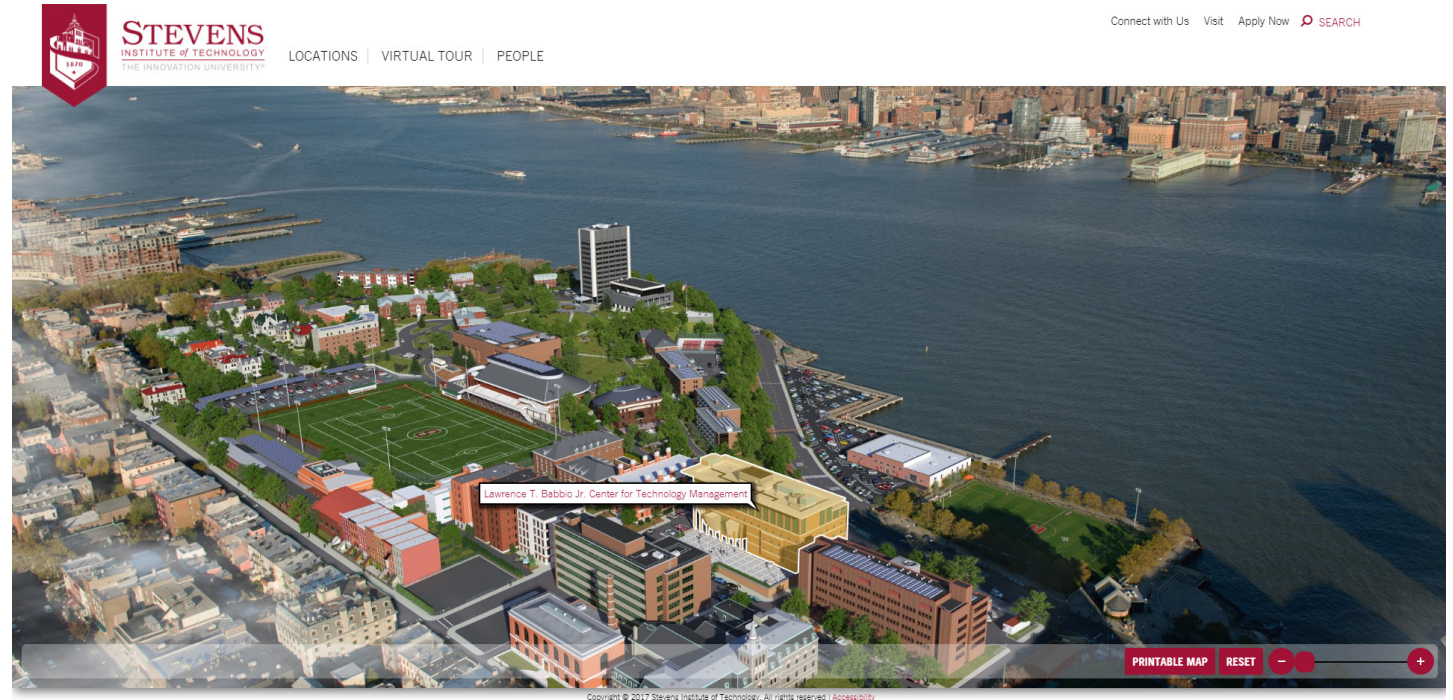


[Link to site](#)

Virtual Campus Tours

International student issue – is this campus right for me?

60% of 4-year public institutions use a virtual tour in their marketing toolkit



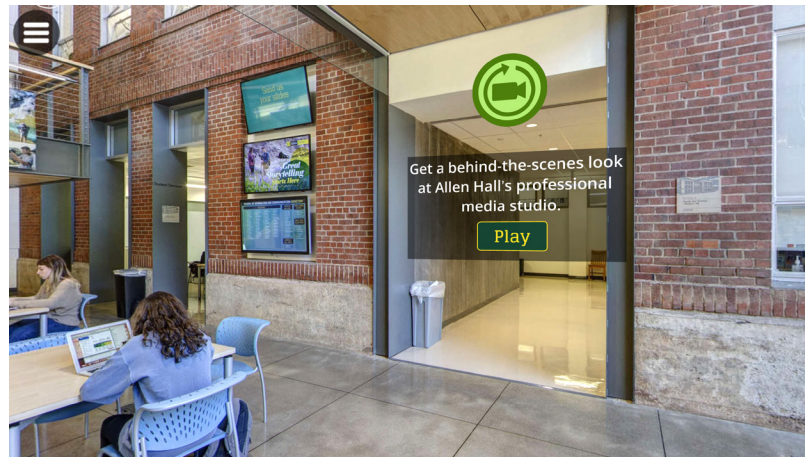
[Link](#)

(Ruffalo Noel-Levitz E-Recruiting Practices Report 2016)

Virtual Campus Tours



[Link](#)

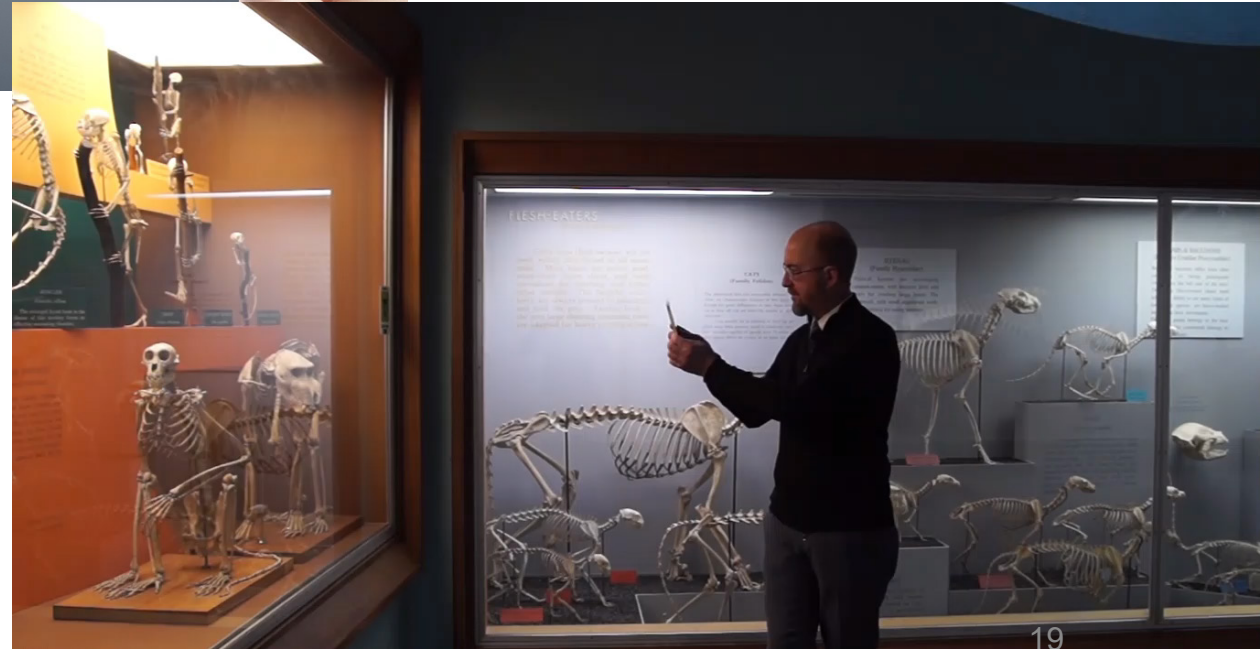


Museums and Art Galleries

AGO reblink –
experiencing art in new
ways



Smithsonian Skin & Bones Exhibit





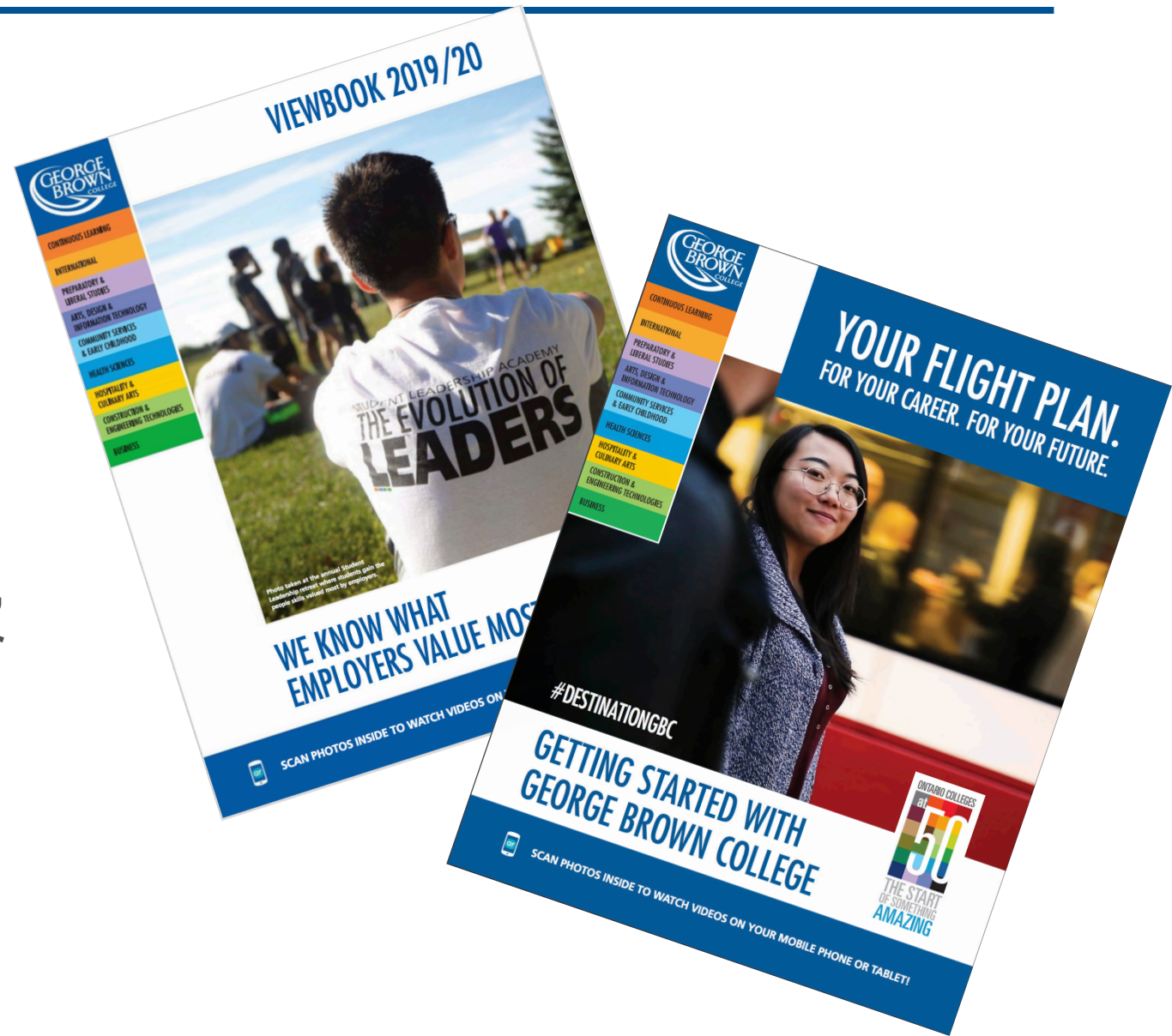
AR

Augmented Reality in Action



AR: Bringing immersive experiences to print

- First AR experience Jan. 2014 in Acceptance Book
- Introduced to Viewbook in Sept. 2014
- Typically have about a dozen interactions in each piece
- Initially set up using a vendor, but now in-house using Layar
- Still used in both publications more than 4 years later



WHAT'S INSIDE?

| | | | | | |
|---|----|---|----|--|----|
| Acceptance Checklist | 3 | Awards, Scholarships & Financial Assistance | 11 | More Information | |
| Why Choose George Brown College | 4 | Planning Your Finances | 12 | Academic and Student Affairs | 20 |
| 6 Reasons to Study at George Brown in the 6 | 5 | Financial Tips & Advice | 13 | International Education in a Global City | 21 |
| We Know What Employers Value Most | 6 | Student Loans & Grants | 14 | More Ways to Get the Job | 22 |
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| Your Next Steps | 9 | Where to Live | 16 | | |
| Paying for College | 10 | Student Services and Campus Life | 18 | | |



LAUNCH VIDEOS ON YOUR SMARTPHONE OR TABLET INSIDE THIS BOOK

- 1 Download the free **Layar** app.

layar



- 2 Find photos that feature the **SCAN TO WATCH!** button as seen in the image below.



- 3 Hover your device over the photo and **tap to scan**. When the video appears on your screen, tap the image to go full screen.

- 4 You can also **click on the buttons** when they appear to link directly to other content.





PLAY THE VIDEO TO HEAR ABOUT STUDENT EXPERIENCES



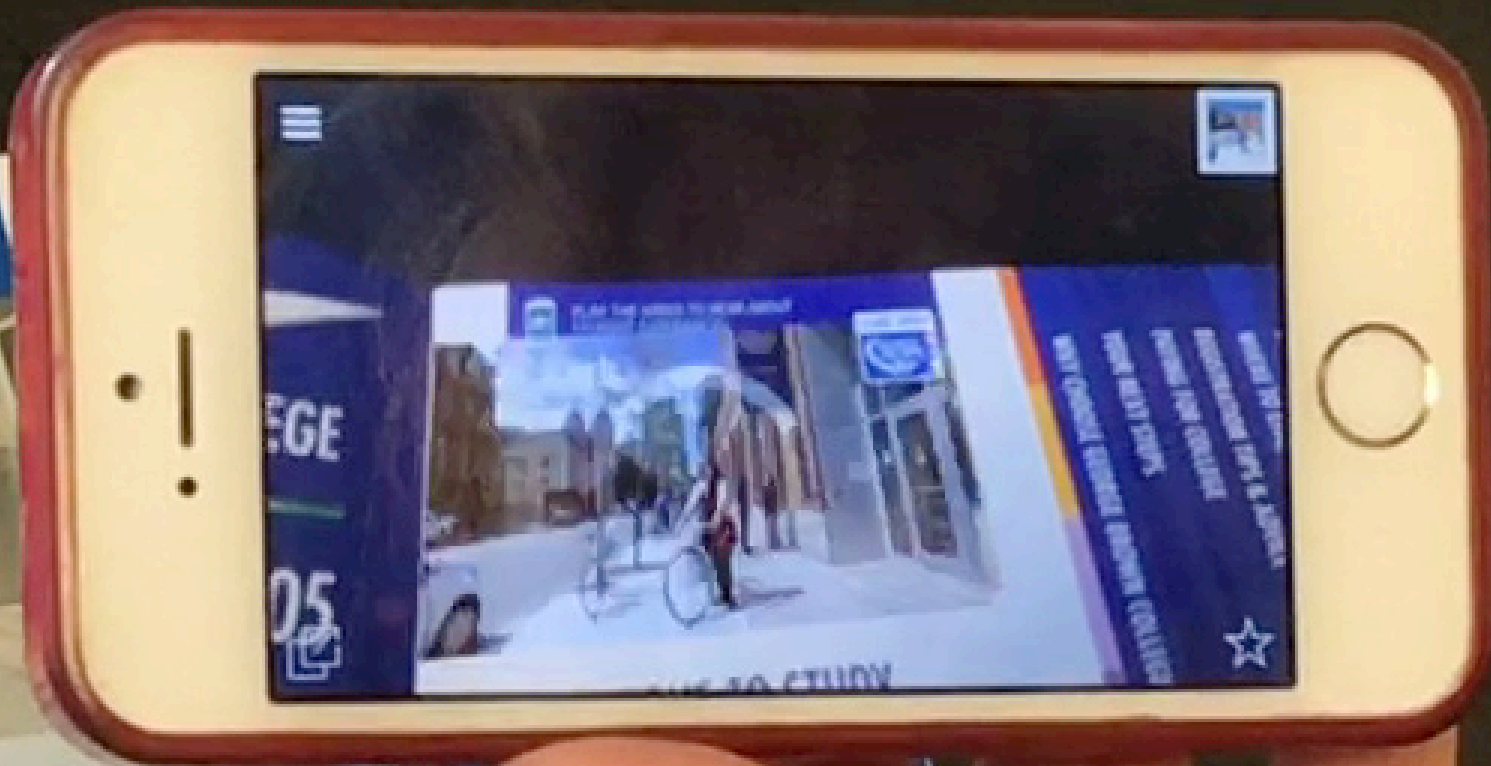
6 REASONS TO STUDY AT GEORGE BROWN IN THE 6

1. STUDY IN THE HEART OF TORONTO

Our campuses are located in downtown Toronto, so you'll have access to top employers for field education and networking opportunities.

5. INDUSTRY INFLUENCED PROGRAMS

We develop our programs in consultation with industry leaders so that the people and technical skills you learn are the ones you'll need on the job.



COLLEGE



What have we learned?

- AR is taking time to catch on, but engagement rising – currently >3X initial launch
- Shorter videos work best
- Videos that come to life from trigger image are more immersive
- Compelling trigger image garners more engagement

- Our most engaging AR trigger images...



SCAN TO WATCH VIDEO
ABOUT WHY STUDENTS LOVE GEORGE BROWN COLLEGE





PLAY THE VIDEO TO HEAR A WELCOME MESSAGE





SCAN TO SEE
HOW TO APPLY TO GEORGE BROWN COLLEGE





SCAN TO WATCH AND LEARN MORE ABOUT STUDENT CLUBS





SCAN TO WATCH AND LEARN MORE ABOUT STUDENT LIFE





PLAY THE VIDEO TO LEARN MORE ABOUT HOW TO GET HELP
AT THE STUDENT SERVICE CENTRE

Student Service Centre





PLAY THE VIDEO TO SEE MOVE-IN DAY AT OUR FIRST STUDENT RESIDENCE





WELCOME TO THE GEORGE BROWN COLLEGE VIRTUAL TOUR

To begin your tour of our applied learning environment, select your area of interest and the lab or room you want to explore. Click on the room highlights to discover more features in each room.

VR

Virtual Tour

vt.georgebrown.ca



VR: Taking you there space by space

- Virtual Tour first launched March 2012
- 2 Versions: Flash & Accessible/Mobile
- Navigation by Centres & Schools
- Walkthrough spaces
- Includes:
 - Photo Gallery
 - Audio Interview
 - Video
 - Maps
 - Room/Lab info
 - Hot Spots



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HOME > HEALTH SCIENCES > SIMULATION CENTRE

ROOM INFO

MENU

High Fidelity Simulation Room

Provides students with a simulated acute care setting allowing them to practice their skills in a safe and controlled environment resembling a hospital room.

Previous Area Next Area

CLICK ARROWS TO NAVIGATE THROUGH LAB

INTERVIEW VIDEO

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HOSPITALITY & CULINARY ARTS > INTERACTIVE CULINARY LAB

ROOM INFO

Interactive Culinary Lab

Each lab is laid out with 24 individual workstations and industry standard equipment.

Previous Area Next Area

CLICK ARROWS TO NAVIGATE THROUGH LAB

Learn more about Hospitality & Culinary Arts programs

INTERVIEW VIDEO PHOTO GALLERY MAP

[Visit Website](#)



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◀ Previous Area Next Area ▶

CLICK ARROWS TO NAVIGATE THROUGH LAB

Learn more about Hospitality & Culinary Arts programs ↗

INTERVIEW VIDEO PHOTO GALLERY MAP

[Contact Us](#) | [Privacy Policy](#) | [Virtual Tour Site Map](#)

[Link to live site](#)



What did we learn?

- Flash version not SEO friendly
- Accessible/Mobile version not a rich experience
- Changes required vendor and could only be made annually by replacing entire tour
- Tracking codes labour intensive



What we did.

- 2016 engaged Beyond Media to rebuild
- One HTML5 version responsive across screens and accessible
- Ability for in-house staff to modify, add, and manage all content through CMS
- Some enhancements to navigate forward and backward space to space
- Direct links added to related programs



Results

Total users **+ 10.53%**

Total sessions **+ 5.75%**

Total pageviews **+ 9.52%**

Total pages per session **+ 3.57%**

Total bounce rate **- 88.67%**

Time per session **- 5.23%**

Mobile visits **+ 29.85%**

Direct visits **+ 1,058%**

Google Organic visits **+ 25.88%**



Most Visited Pages

1. Main page + **75.30%**
2. St. James Campus + **56.69%**
3. Residence + **45.59%**
4. Casa Loma Campus + **12.84%**
5. Waterfront Campus + **11.36%**
6. Ryerson + **3.59%**
7. Sitemap + **60.24%**
8. St. James Campus photo gallery + **19.39%**
9. CHCA building + **7.12%**
10. Student Life + **17.58%**

Accessibility



Abilities and disabilities

Mobility

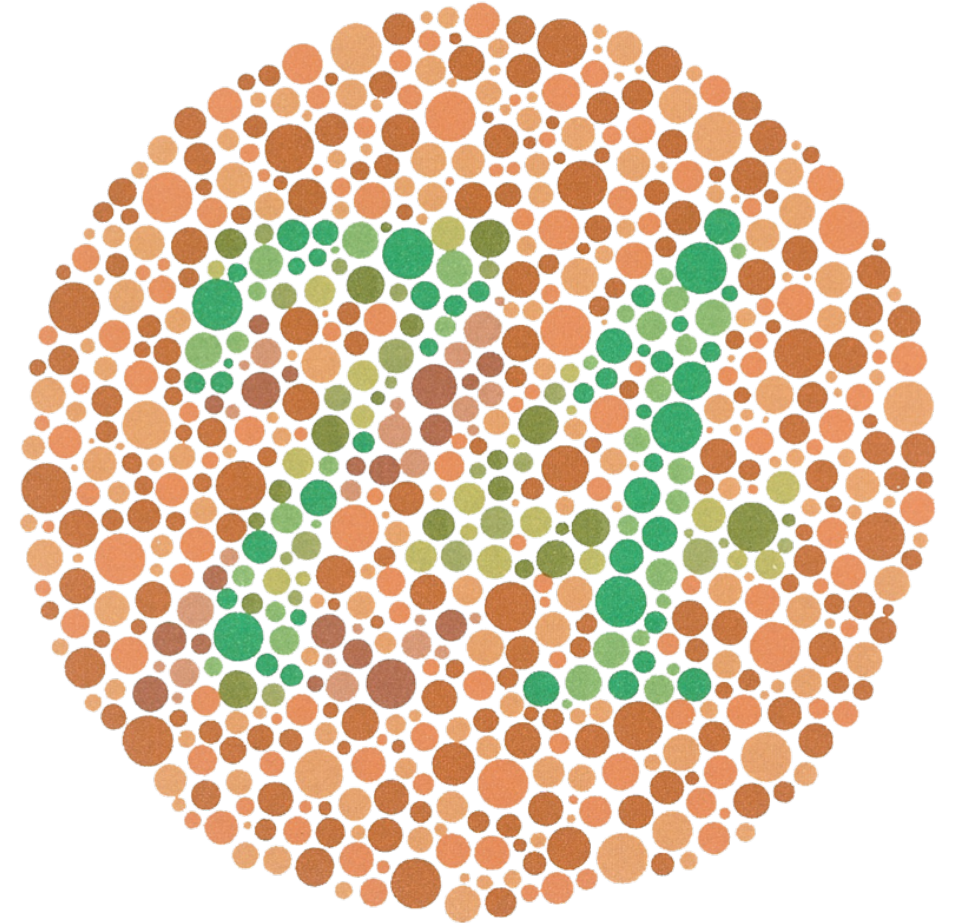
Auditory

Dexterity

Cognitive

Vision

Medical



Not an exhaustive list!

How do we respond?

- VR has potential to unlock experiences tailored to specific disabilities
- When we think more widely available experiences, lessons from web accessibility are helpful

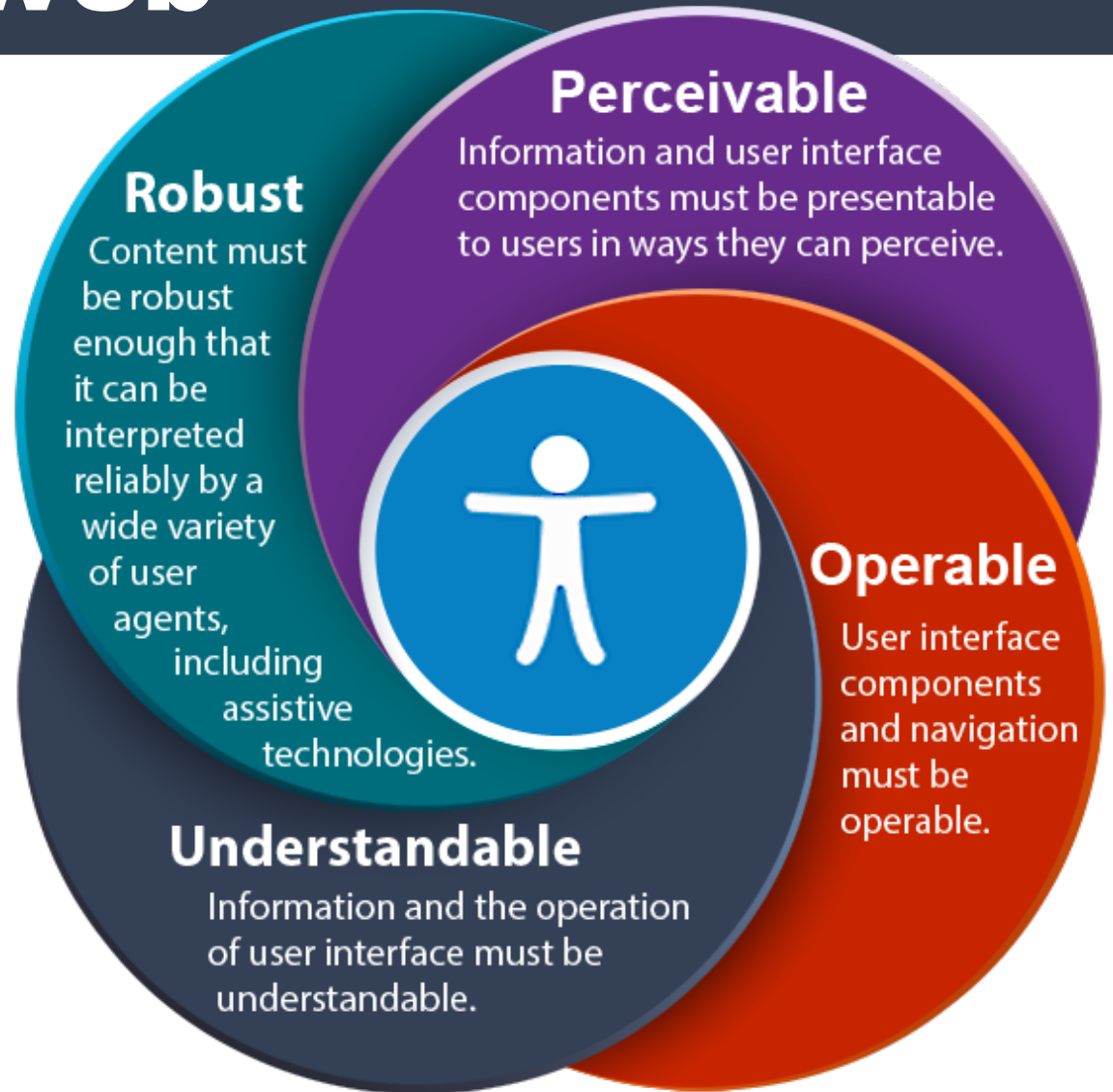


Haptic cane (Microsoft)

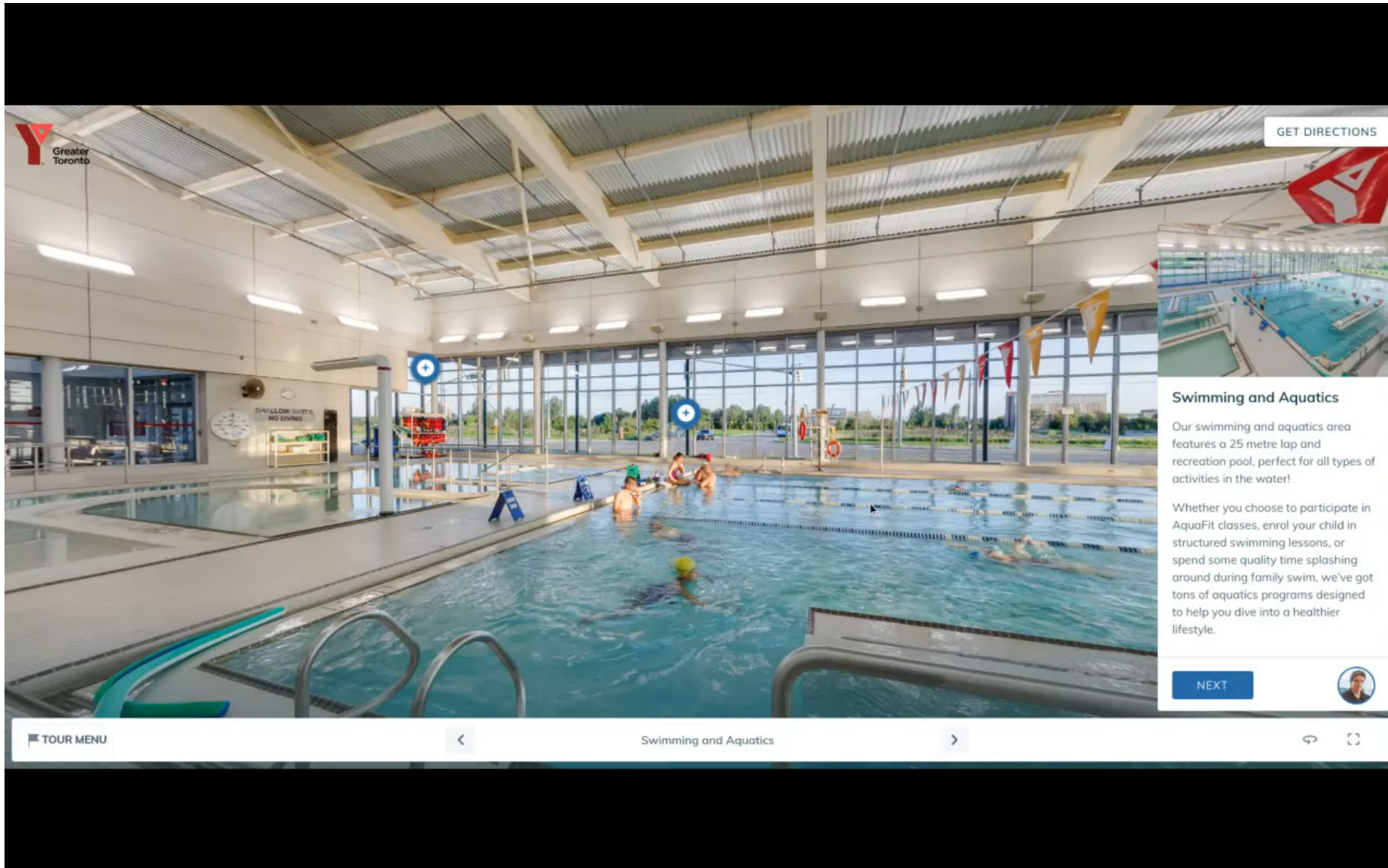
Lessons from the web

The WCAG (Web Content Accessibility Guidelines) four pillars

Is it Perceivable?
Is it Operable?
Is it Understandable?
Is it Robust?



Example: Circuit



[Link to project](#)

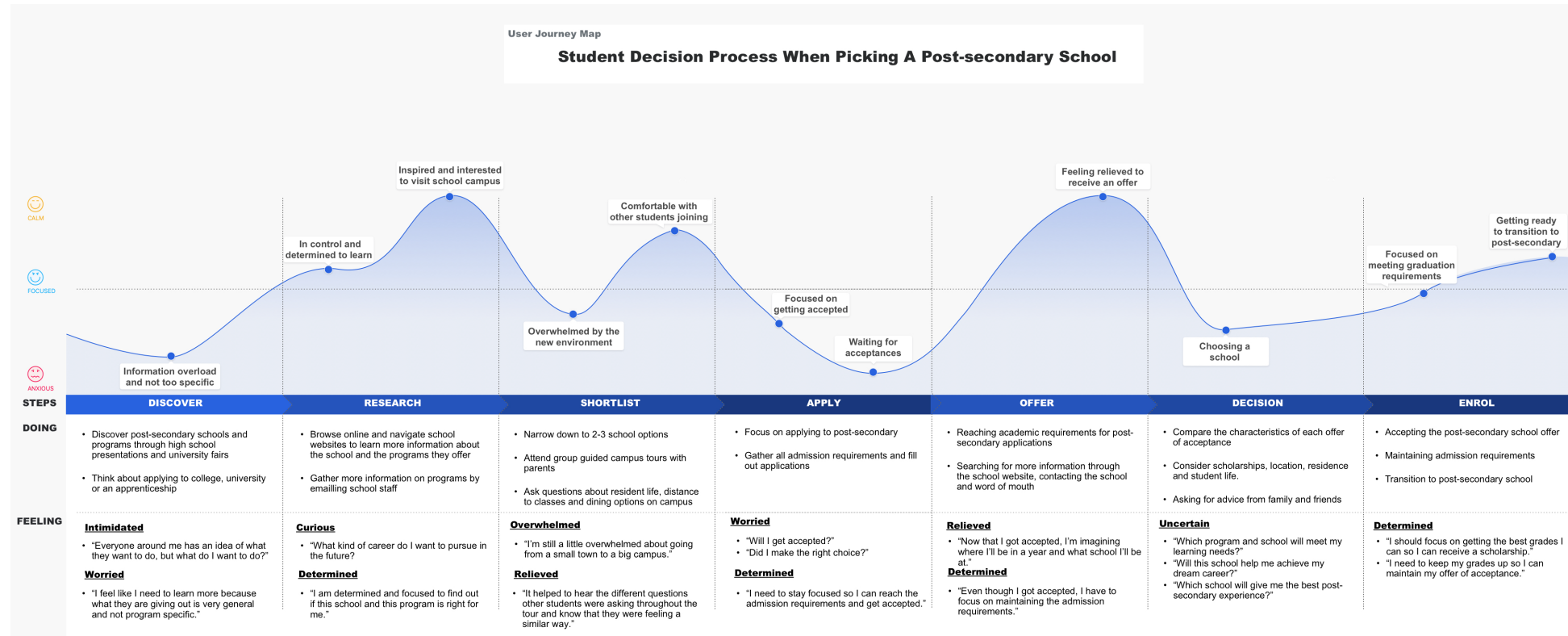
Better outcomes for everyone

- Accommodating disabilities makes for a better overall product or experience



Return on Immersion

Define touchpoints with Student Journey Maps



PS Fairs/Expos

Website
Email

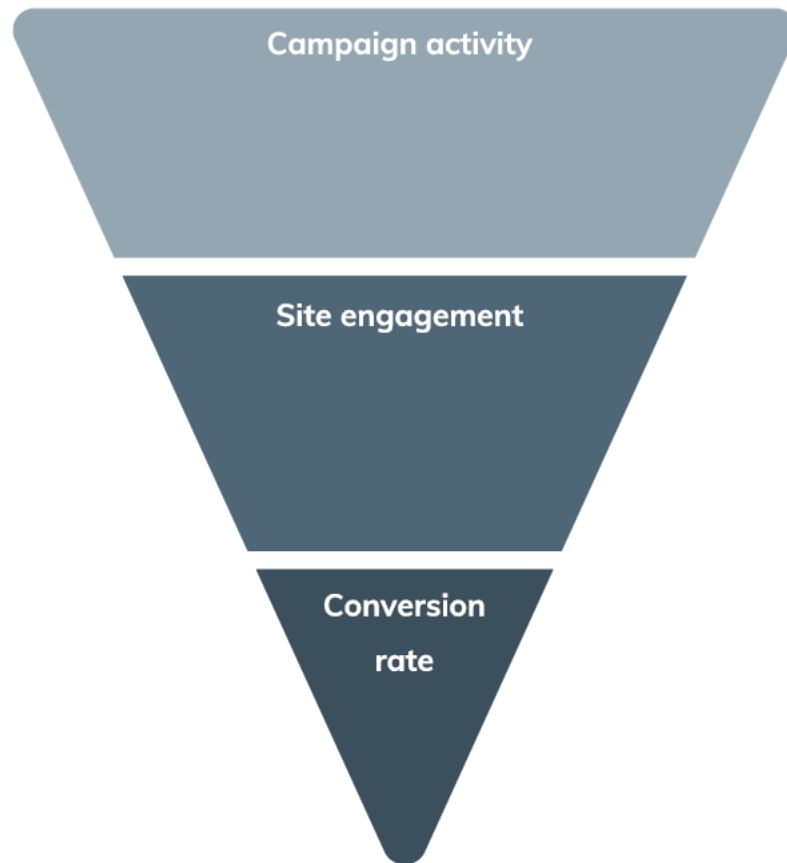
Campus tour
follow-up

Acceptance
letter

[Link to article](#)

3 categories of measurement

Measure Immersive projects in these 3 suggested areas



Campaign Activity

- Email open rates, CTR
- Social post interaction
- App installs (if required)

Site Engagement

- Session time
- Content 'view-through': # of pages viewed vs. Total pages presented
- Shares

Conversion rate

- Inquiry form
- Request info package
- Visit external page for more info
- Book a tour

Immersive technology - Recap

- Better class attendance and participation
- Improved learning and retention
- Heightened sense of experience
- Greater confidence in post-secondary choice and transition

Thanks!

Q&A

Guide to Virtual Tours and Immersive Experiences

Email info@beyond.works for a free hardcopy of our helpful guide

Contact andrew@beyond.works for project inquiries or more info.

