

# Accessible Americas IV: *ICTs for ALL*

## Session 5

### University of Guadalajara: Advances in web accessibility and digital inclusion

San José, Costa Rica

21 November 2017

#### *Speakers*

**José Guadalupe Morales Montelongo**

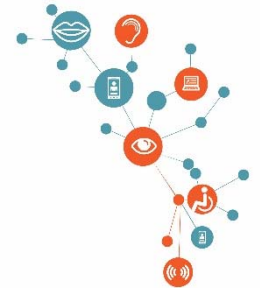
**Mark Jonathan Camacho Escatel**





# University of Guadalajara (Mexico)

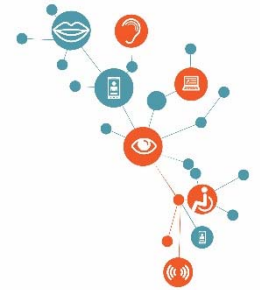




## University of Guadalajara

- Second largest public university in Mexico
- Jalisco's University Network
- 270,000 students
- 15 campuses
- 1 online university
- 171 high schools





## University of Guadalajara

- 7 million people in Jalisco
- 300,000+ people with disabilities
- 1000+ students with disabilities



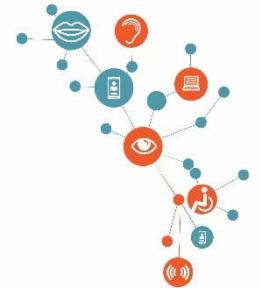


# University of Guadalajara

- ICT educational programs
- Some ICT indicators
- Web accessibility strategy
- Digital inclusion initiatives
- Lessons and proposals







# ICT educational programs

29 undergraduate programs

11 campus

18 postgraduate programs

11,213 students



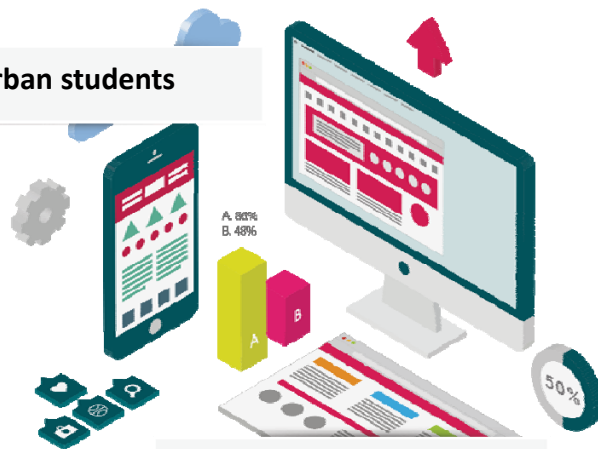


# Availability and use of Internet

## Hours people spent on internet

### Internet at home

**92%** Urban students

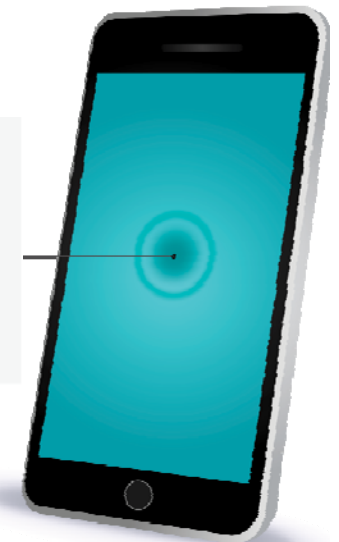


**81%** Rural students

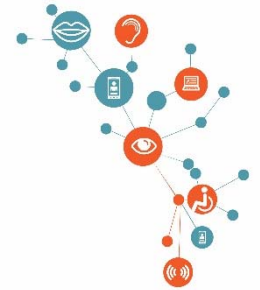


**91%**

Uses the smartphone as the first device for accessing internet in the campus.



Source: Hábitos de uso de las TIC en los CU's y sus extensiones de la UdeG. Informe Estadístico 2016



## WiFi users

**84%**  
Students

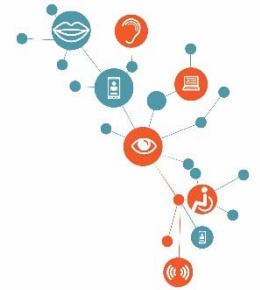


**72%**  
Professors



Source: Hábitos de uso de las TIC en los CU's y sus extensiones de la UdeG. Informe Estadístico 2016





# Achivements



**Leadership on IPv6 implementation in Latin America**  
Ranked in the Top 100 in worldwide IPv6 Deployment..

## Accessible Website



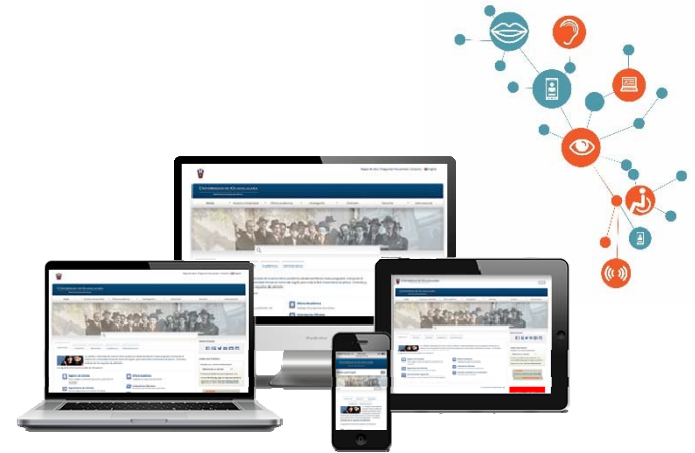
AA Level (WCAG 2.0)

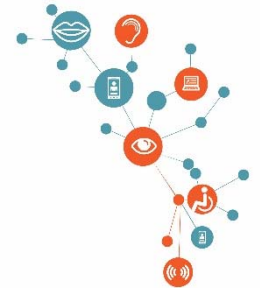
Source: Informe de Actividades CGTI 2015-2016



## Web accessibility strategy

- Hundreds of websites
- University web model 2.0
- Standardization
  - Tools, contents and visual design
- Main websites
  - Main website **www.udg.mx** (6 million web visits)
  - Campus websites, high schools administration, online university (12 million web visits)





## Web accessibility strategy

- Method to incorporate the accessibility of university websites
- Based on an open source CMS
- Team sensitize
- Educate editors, web developers and designers





## Web accessibility strategy

- Website assessment: automatic & manual
- Assist devices can navigate the university websites
- Two phases
  - Phase I. Main website.
  - Phase II. University network websites.



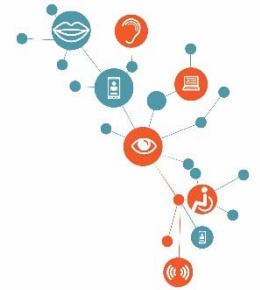


## Web accessibility achievements

- Motivated and experienced team
- 10 websites in AA level
  - Accesibles websites network
  - 200+ people sensitized
- Positioning web accessibility in ICT conferences
- Leader in web accessibility among the universities of Mexico (Feb/2016)
- CIO100 recognition in 2016



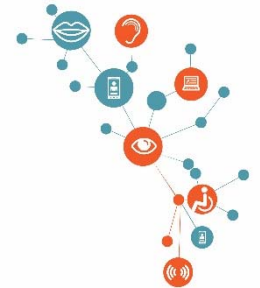




## Digital inclusion initiatives

- Inclusive University
- Electronic tablets lending
- Deaf education access
  - 75,000 deaf people in Jalisco
  - 40% illiterate
  - 1% can access high education





## Lessons and proposals

- Digital accesibility: documents & web
- Sensitization is a necessary condition to start a successful process
- Unique rol of universities
  - Identify competences to develop web accessibility.
  - Evaluating agencies should include the subject
  - Work in public policies
- Accessible universities network





## Lessons and proposals

- Promote inclusion days
- Identify the skills that are required for web accessibility
  - Building accesible websites
  - Repairing websites accessibility
  - Websites accessibility assessment





**Red Estudiantes Latinoamericanos Por la Inclusión**





## Program: Web Accessibility Ambassadors (EAW)

“Programming with meaning”.

```
1 <!DOCTYPE html PUBLIC "-//W3C//DTD HTML
2 <html>
3 <head>
4 <title>Example</title>
5 <link href="screen.css" rel="sty
6 </head>
7 <body>
8 <h1>
9 <a href="/">Home</a>
10 </h1>
11 <ul id="nav">
12 <li>
13 <a href="#one">One</a>
14 </li>
15 <li>
16 <a href="#two">Two</a>
17 </li>
```

The program was born as a digital inclusion strategy of the University Communities Network for Inclusion and the General Coordination of Information Technologies (CGTI-UDG), to promote the importance of web accessibility for people with disabilities

objectives:

- Promote the dissemination of good practices of digital inclusion for people with disabilities.
- Generar redes de apoyo (Grupo de Facebook) y conocimiento en materia de inclusión para personas con discapacidad
- Create support and knowledge networks (Facebook group) on inclusion for people with disabilities.
- Recover and systematize the experiences of people with disabilities to the construction of digital inclusion strategies

**\*Mission: Generate conditions of accessibility, permanence and equal opportunities for all students, whose central value is the recognition of diversity as a social value**





### Scaffolding of the project:

1. Equity of conditions in equal rights
2. Social model = Remove barriers
3. Diversity = Innovation
4. Cases and experiences = programming with meaning



## **Eneida Guadalupe Rendon Nieblas student with deafblindness at the University of Guadalajara (UDG)**

When I had the first contact with a braille line, I lived with total deafblindness

“It was for me as to break the barriers of communication, first I began to read the books that had been recorded on Cd`s”, then little by little, I learned how to use the Internet and it was like a window to the world: I could communicate with my family from Sinaloa, then with people from other countries and I learned a lot through the different websites that I visited”



## Accessible Americas IV: *ICTs for ALL*

**Jose Morales, MSc**

ICT Development Services Director

[Jose.Gpe.Morales@redudg.udg.mx](mailto:Jose.Gpe.Morales@redudg.udg.mx)

**Mark Escatel**

Master student in Technologies for Learning

[escatel05@Gmail.com](mailto:escatel05@Gmail.com)



# Thanks to all