

# "Web Accessibility Benchmarking - measuring the impact of policies"

Mikael Snaprud,  
Agder University College  
Norway

**eGep**  
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# Overview

- Accessibility and Open Standards
- Cluster Web Accessibility Benchmarking
- UWEM - A common scale for measuring
- European Internet Accessibility Observatory
  - Evolving development
  - Peer reviewing: User testing, Open Source
- Linking the loops

# Access – for whom



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Open Standards improve access

# Open standards for accessibility and competition by merit



Nuts and bolts  
Mature Open Standard

## Online public content

Access for all - browsers, terminals, disabilities

File formats for MS Word or Corel WP are not open

OASIS – build open standard for documents (OOffice)

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# Open Standards

- Developed in non-commercial organisation
- Give stability over time
- Written and available – royalty free
- Open Test Suites
- Sample Implementations
- Allow competition
- Lowers prices
- Increases responsiveness

# The WAB cluster



Information Society  
Technologies



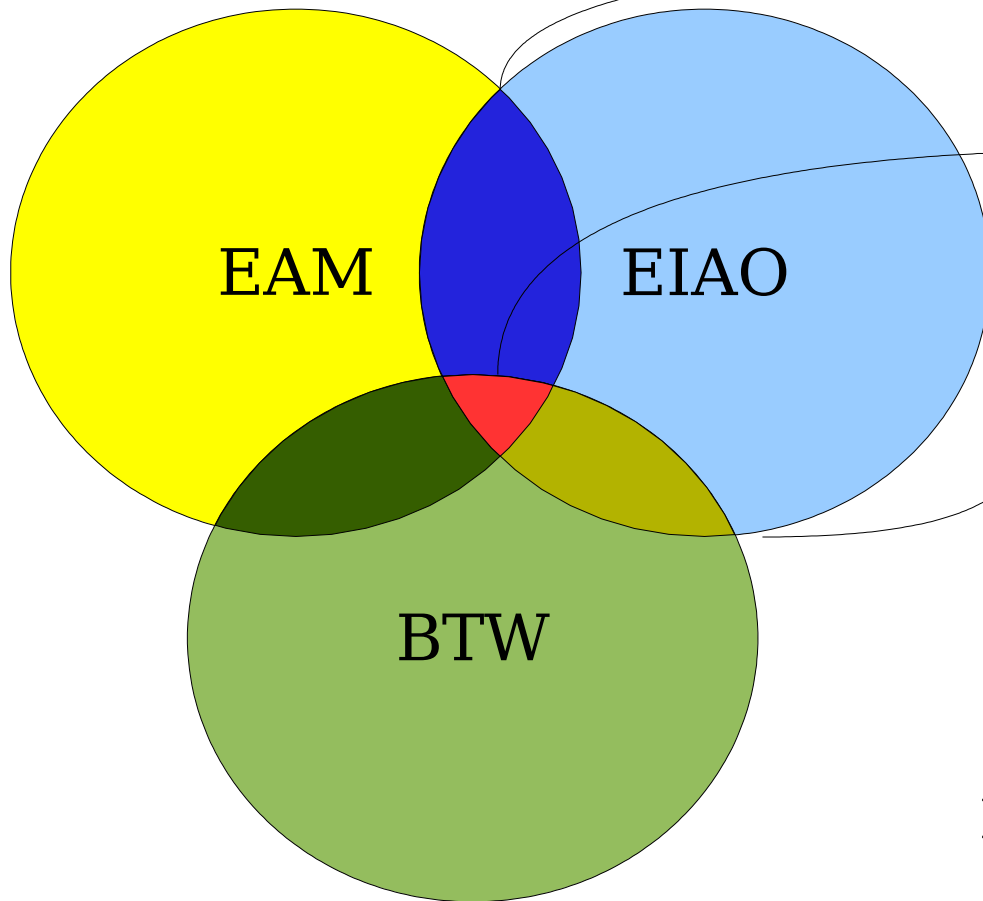
Large scale evaluation

Methodology WP 1a & 1b

Common API for plug-ins

Cluster with 24 partners  
co-operation with W3C (WAI)

IPR Challenge



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# A Unified Web Evaluation Methodology - UWEM

- Unified scale for measurement
- Foreseen migration from WCAG1.0 to WCAG2.0
- The common Methodology to evaluate one Web page, an entire Web site (irrespective of size), or multiple Web sites;

# UWEM 1

UWEM will take into account:

- **Specific** to WAI Documentation - All questions are drawn from current and future WAI Documentation;
- **Tool and Browser Independent** - Questions are published in a 'pure' form, not directly associated with a current tool or browser. However annotation with examples could be useful;
- **Uniquely Interpretable** - Questions have only one way of being interpreted;
- **Repeatable** - 2 different web accessibility evaluators can perform the relevant tests on the same site and get the same results;
- **Translatable** - The context of each question can be translated into all official European languages;



# UWEM for large scale testing

Information for policy makers  
Score cards etc

Criteria for conformance

Model for aggregations and summarisation

Set of indicators based on W3C  
Web Content Accessibility Guidelines

Evaluation guidelines

Scoping and sampling

Bologna Scorecard Summary

	Institutional	Quality Assurance				2 cycle			Recognition			Indicators
		External	Internal	External	Internal	Skills	Quality	Study Cycle	External	Internal	External	
Albania	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Andorra	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Austria	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Belgium (Dutch Community)	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Belgium (French Community)	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Bosnia and Herzegovina	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Bulgaria	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Croatia	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Cyprus	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Czech Republic	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Denmark	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow

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# European Internet Accessibility Observatory (EIAO)

- Build the technical machinery for a possible Internet Accessibility Observatory
- Participate in the development of a Unified Web Accessibility Methodology (WAB Cluster)
- Facilitate an Accessibility case
- Develop new methods to access web accessibility

# EIAO Design

- Assess about 10.000 Web Sites
  - Some 100 pages per site
  - Machinery for monthly assessment
- Design for scalability
  - Distributed architecture
  - Gather data from multiple instances
- Open Source tools for transparency and inclusion

# EIAO partners and reference groups

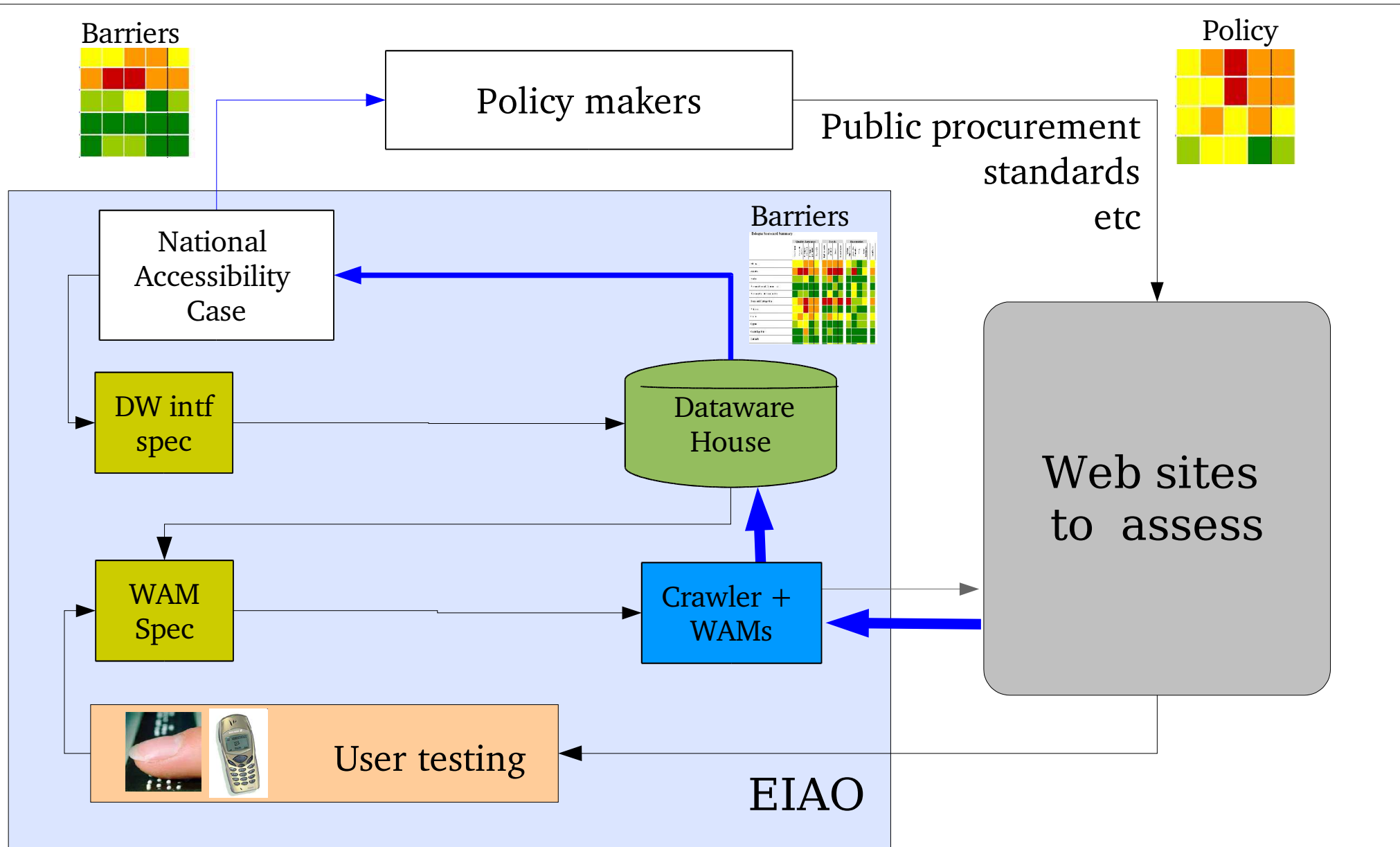
Universities	Agder University College	NO
	University in Tromsø	NO
	Manchester Metropolitan University	UK
	Technical University of Warsaw	PL
	Aalborg University	DK
SMEs consultancy	Vista Utredning as	NO
	Nettkroken	NO
	Intermedium	NO
	FBL	IT
	FTB-Volmarstein	DE
Reference Groups	European Disability Forum EDF	
	European Design for All e-Accessibility Network EdeAN	
	Norwegian Post and Telecom Authority	
	Norwegian Directorate for Health and Social Affairs	
	National accessibility authorities will be invited (URL + Policy)	
Cluster	Projects BenToWeb, SupportEAM, Develop European Unified Web Accessibility Validation method	

# Norwegian Accessibility case

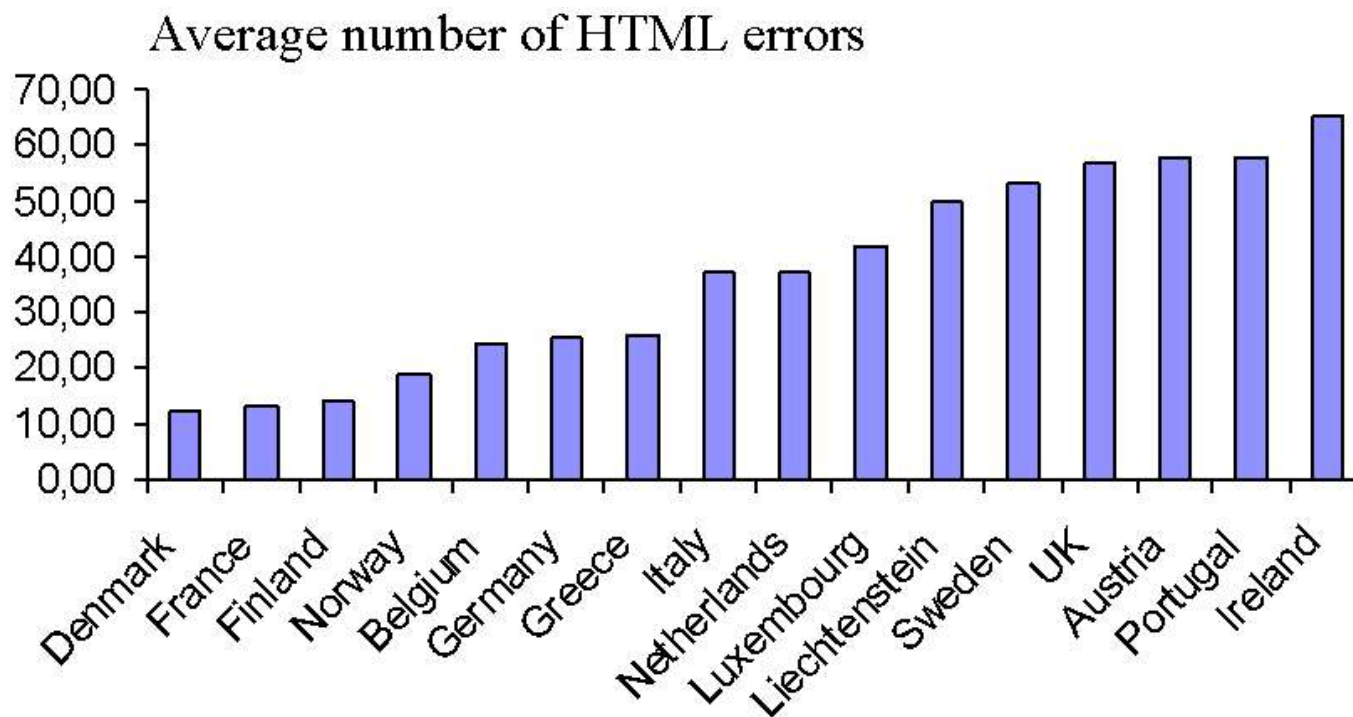
- Norge.no
- The Delta center
- Norwegian Post and Telecommunication Authority
- Directorate for Health and Social Affairs
- Ministry of modernisation
- Ministry of environment
- Norwegian Board of Technology

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# Linking loops



# Ranking lists to encourage improvement



All EU countries and Norway agree to adopt and use WCAG

# Conclusions

- Developing quantifiable indicators to
  - Rank sites and tools for barriers
  - Monitor development over time
  - Measure penetration of technologies
  - Crucial for a market with competition based on merit
- Open Source - transparent assessment
  - Encourage improvements and re-use
  - More transparent measurements



# Open Source collaboration

- Support verifiable research
- Support re use of results
- Builds on common code base for co-operation

Parastoo Mohagheghi, quality management  
and software engineering: Grismtad



Anand B Pillai, author of HarvestMan  
and Founder of BangPypers: Bangalore

