

Session 1: Global Technology Standards - DigComp & ISTE



Digital Nomad

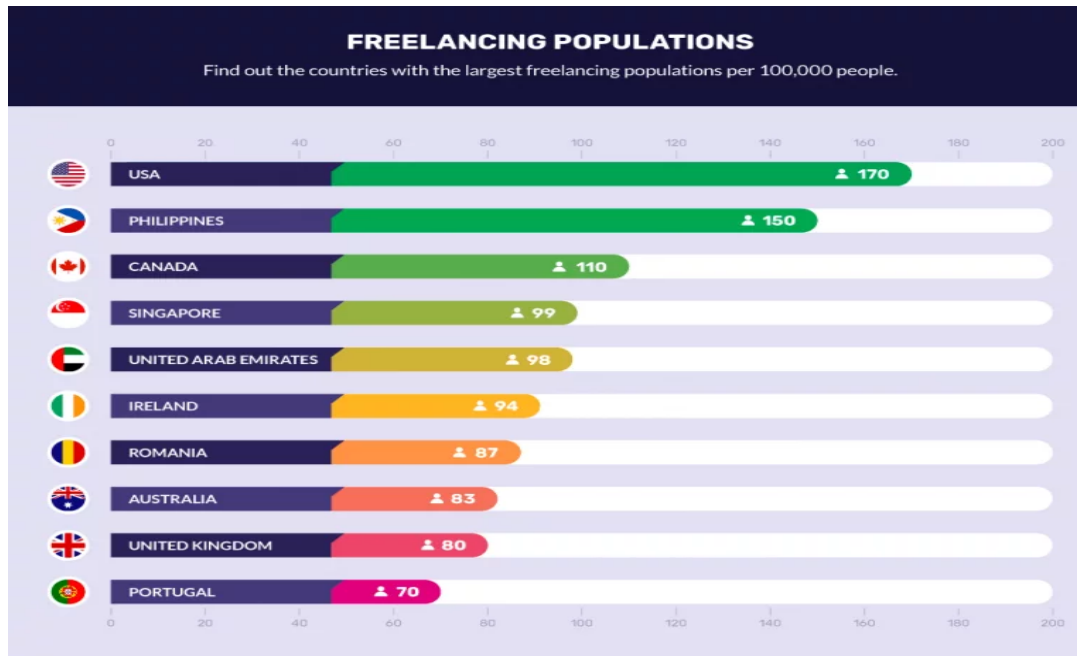


Digital Nomads Are Taking 'Working Remotely' To A Whole New Level

<https://www.youtube.com/watch?v=gTPhXYBcLQ>

The Freelancing Economy

- It's estimated around 2% of the Philippine Population are digital freelancers



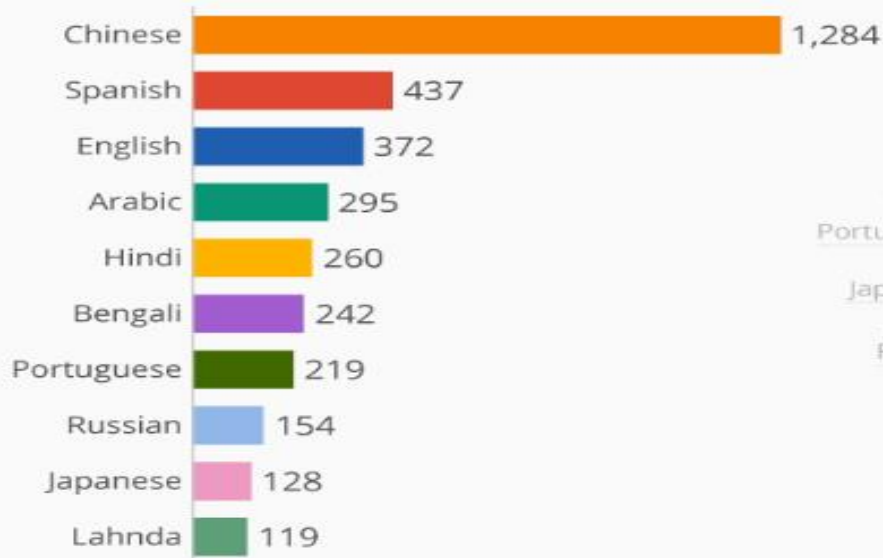
Some personal stories

- In my personal volunteer time, I work for a Google company – (through Upwork) – anywhere in the world. My previous quick team meeting (4 countries was all in English)
- One of my high school friends was hired by a US Brand (\$2,500 a month) tax free (after 1 month of looking for work) to manage their Amazon US Store

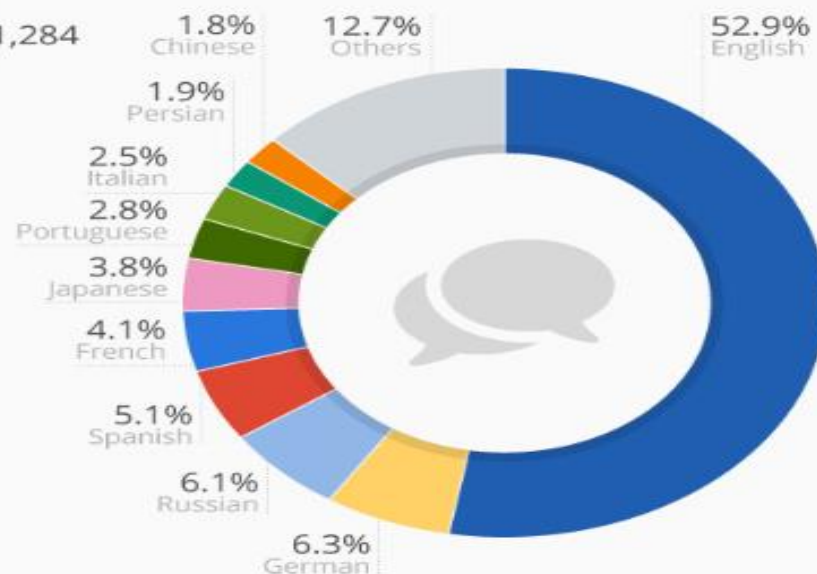
The Language of the Internet

Two Worlds: Languages IRL and Online

Estimated number of first-language speakers worldwide in 2017 (millions)*



Percentage of websites using various content languages*



* Each language also includes associated member languages and varieties

Sources: w3techs.com, Ethnologue

What skills are needed to thrive in the new 'flat' world economy?

- **Learning how to learn!!**
- **Mastery of basic skills:**
 - Digital Literacy/Proficiency
 - Language of the Internet (English)



What Digital Standards Framework are being used worldwide?

- **ISTE 2016 Standards for Students** – The most popular digital standards framework in the USA (Non-profit organization)
- **DigComp 2.0 Framework** – Collaboration of the European Union (Official Digital Framework of the EU), similar to the CEFR (for languages)

ISTE Standards STUDENTS•2016

1998	2007	2016
Computer lab	Laptop carts	1:1
Computer teacher	Innovative teachers	All teachers
Teacher directed	Student-centered	Learner-driven
How to use tech	Using tech to learn	Amplifying learning with tech

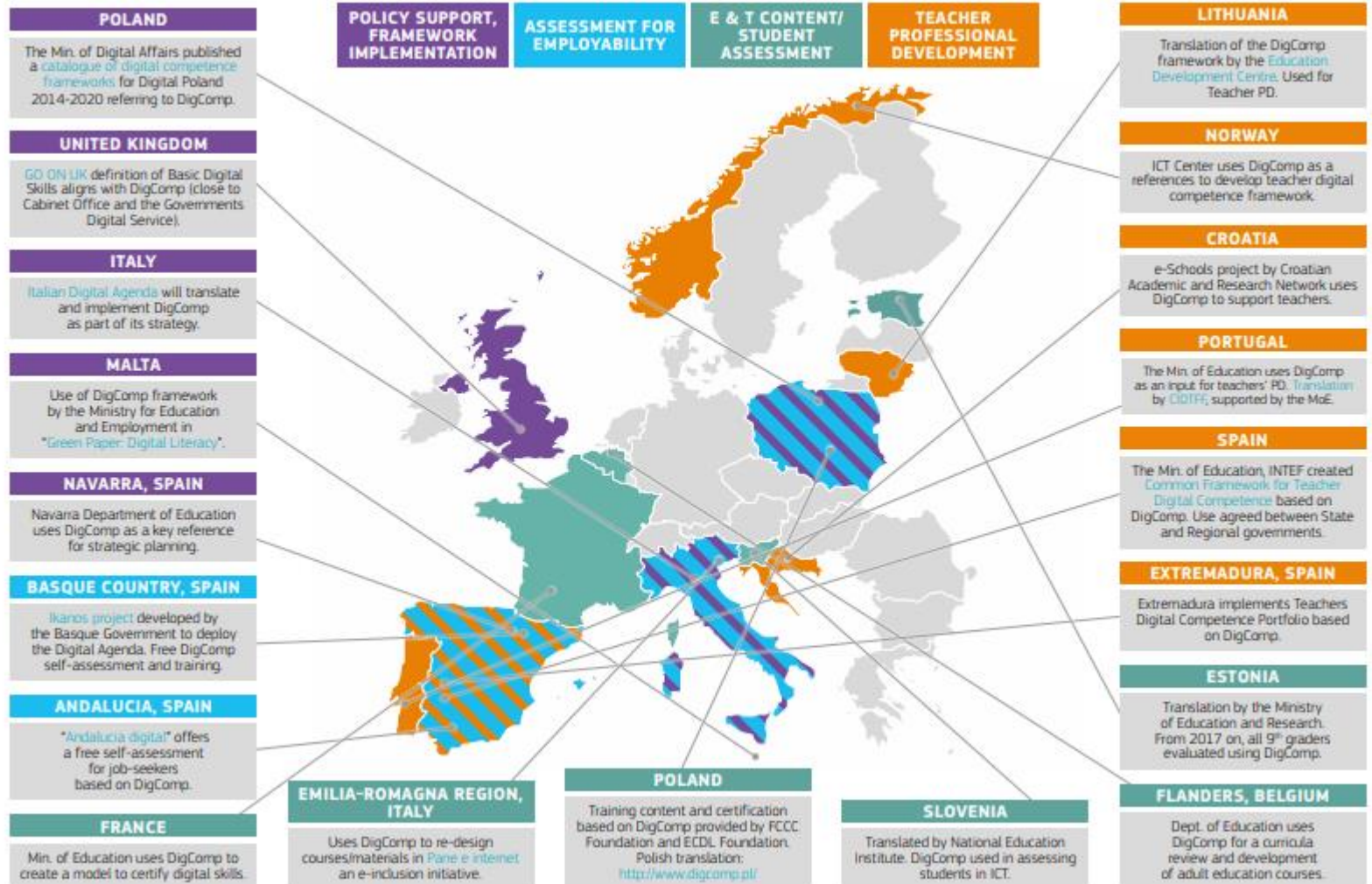
Benefits of DigComp / ISTE Standards

Position	Benefits for you
SENIOR MANAGEMENT	IT COMPELS HEADS TO EQUIP THEIR COMPANIES AND THEIR PEOPLE WITH THE TECHNOLOGICAL SYSTEMS AND HUMAN RESOURCES DIGITAL COMPETENCIES NEEDED FOR THE ACHIEVEMENT OF THEIR TARGETS
HR SPECIALIST	<p>1) IT EQUIPS THE HR PROFESSIONALS WITH THE KNOWLEDGE AND SKILLS TO UNDERSTAND THE VARIOUS LEVELS OF DIGITAL COMPETENCIES</p> <p>2) IT ALLOWS HR PROFESSIONALS TO MATCH THE TECHNOLOGICAL REQUIREMENTS OF A SPECIFIC JOB AGAINST THE TECHNOLOGICAL SKILLS of a JOB CANDIDATE</p> <p>3) IT GUIDES TRAINING PROGRAMS TO FOCUS ON SPECIFIC DIGITAL PROFICIENCY PROGRAMS</p>

Benefits of DigComp / ISTE Standards

Position	Benefits for you
ACADEMICIAN	<p>1) TO ENSURE THAT STUDENTS AND GRADUATES ARE EMPLOYABLE , THE CURRICULUM SHOULD BE ALIGNED TO DIGITAL INTERNATIONAL STANDARDS</p> <p>2) TO ENSURE THAT CLASSROOM ASSESSMENTS TRULY MEASURE THE DIGITAL COMPETENCY LEVEL OF THE STUDENT , INTERNATIONAL STANDARDS SHOULD BE USED BEYOND CLASSROOM GRADES</p>
ADULT LEARNER	TO ENSURE THAT ONE IS NOT DECLARED REDUNDANT OR IRRELEVANT IN THE COMPANY, ONE MUST TRY TO KEEP UP WITH THE DIGITAL LEVEL OF PROFICIENCY REQUIRED OF THE JOB

Digcomp 2.0 in the EU



Digital Standards: ISTE

The 2016 **ISTE Standards for Students** reflect current shifts in the field and are meant to prepare students for the future



DigComp Areas

The Digcomp is most popular in the European Union. As it is a multi-country framework, it is better for

DigComp Competence Areas

In DigComp, there are 5 competence areas which outline the key components of the digital competence. They are the following: Information and data literacy; Communication and collaboration; Digital content creation; Safety; and Problem solving.



Competence areas 1, 2 and 3

Deal with competences that can be retraced in terms of specific activities and uses.



Competence areas 4 and 5

Are "transversal" as they apply to any type of activity carried out through digital means. Problem solving elements, in particular, are present in all competence areas, but a specific area was defined to highlight the importance of this aspect for the appropriation of technology and digital practices.



Dimension 5

Provides examples of use applied to employment, and to education and training.

DigComp Competency Areas

- **5 DigComp Areas**
- **3-5 Competency standards under each area**
- **Each Competency standard is described by 1 page of descriptors**
- **Can download at:**
<https://publications.jrc.ec.europa.eu>

DigComp Area	DigComp Competences
Information and Data Literacy	Browsing, searching and filtering data, information and digital content Evaluating data, information and digital content Managing data, information and digital content
Communication and Collaboration	Interacting through digital technologies Sharing through digital technologies Engaging in citizenship through digital technologies Collaborating through digital technologies Netiquette Managing digital identity
Digital Content Creation	Developing digital content Integrating and re-elaborating digital content Copyright and licences Programming
Safety	Protecting devices Protecting personal data and privacy Protecting health and well-being Protecting the environment
Problem Solving	Solving technical problems Identifying needs and technological responses Creatively using digital technologies Identifying digital competence gaps

Elements of ISTE

ISTE has **7**
domains.

Each Domain
has **4**
standards

Total of **28**
Standards

1 Empowered
Learner

Students leverage technology to take an active role in choosing, achieving, and demonstrating competency in their learning goals, informed by the learning sciences.

2 Digital Citizen

Students recognize the rights, responsibilities and opportunities of living, learning and working in an interconnected digital world, and they act and model in ways that are safe, legal and ethical.

3 Knowledge
Constructor

Students critically curate a variety of resources using digital tools to construct knowledge, produce creative artifacts and make meaningful learning experiences for themselves and others.

4 Innovative
Designer

Students use a variety of technologies within a design process to identify and solve problems by creating new, useful or imaginative solutions.

5 Computational
Thinker

Students develop and employ strategies for understanding and solving problems in ways that leverage the power of technological methods to develop and test solutions.

6 Creative
Communicator

Students communicate clearly and express themselves creatively for a variety of purposes using the platforms, tools, styles, formats and digital media appropriate to their goals.

7 Global
Collaborator

Students use digital tools to broaden their perspectives and enrich their learning by collaborating with others and working effectively in teams locally and globally.

Activity

- Match which Areas/Domains belong to DigComp / ISTE

LAUNCH QUIZZIZ GAME

- For a group of standards – choose which domain would match the standard (in either DigComp / ISTE)

CHEATSHEET: DigComp and ISTE

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Summary

- The workplace of the new normal is **global**
- **2 million Filipinos are now participating** in the Freelancer economy (Can work anywhere in the World.. Maybe Siargao as the new office?)
- Two sets of Digital standards are popularly used to describe **Digital Literacy** – namely DigComp and ISTE