



EUROPEAN EDUCATIONAL RESEARCH ASSOCIATION

[Main page](#) | [About EERA](#)



ECER 2018, Bolzano

The role of **Teacher Networks** as agents for change in **shaping** teachers' digital competence

MAR CAMACHO

Universitat Rovira i Virgili (URV)

MARIA DOMINGO-COSCOLLOLA

Universitat Internacional de Catalunya (UIC)

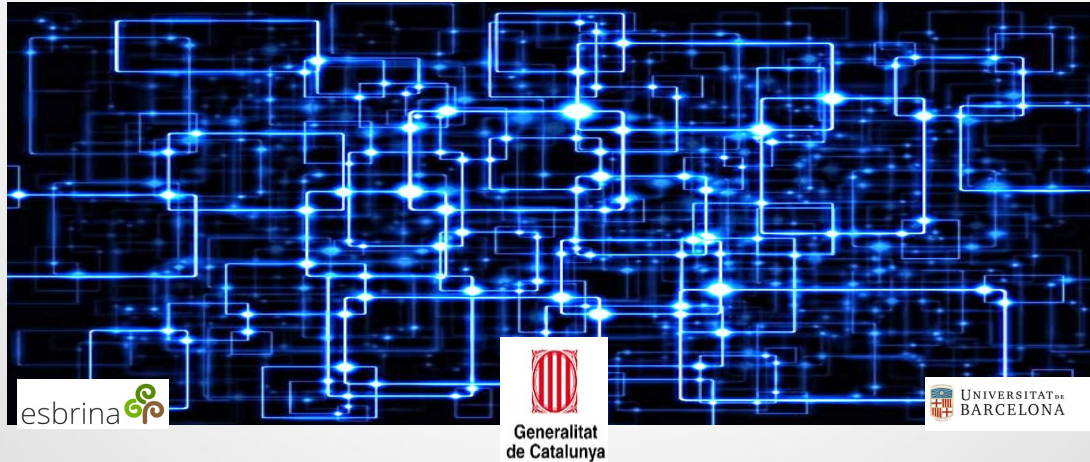
MONTSE GUITERT

Universitat Oberta de Catalunya (UOC)



1. PRESENTATION

Interuniversity proposal for initial training of teachers in digital technologies



RESEARCHERS



UNIVERSITAT DE
BARCELONA

UAB

Universitat Autònoma
de Barcelona



Universitat de Lleida

Universitat
de Girona



UNIVERSITAT ROVIRA I VIRGILI



UNIVERSITAT
**RAMON
LLULL**

UVIC

UNIVERSITAT DE VIC
UNIVERSITAT CENTRAL
DE CATALUNYA



*Universitat
Abat Oliba CEU*

UIC
barcelona

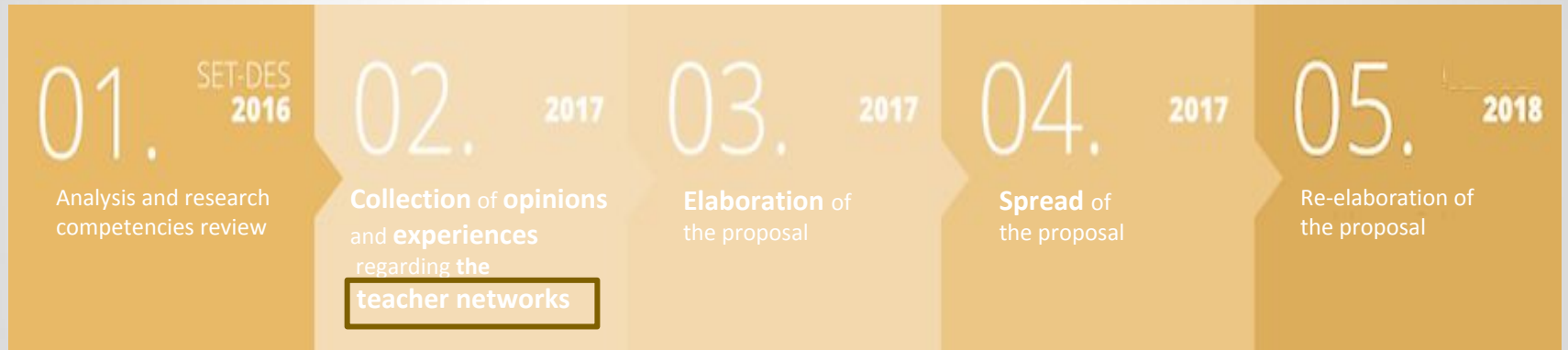


Universitat
Oberta
de Catalunya



Universitat
Pompeu Fabra
Barcelona

PROJECT OVERVIEW



MAIN GOAL

To **rethink** the development of teachers' digital competence in the initial training of teachers from the **vision** of **teacher networks**.





Scientific literature

The contribution of **teaching networks** in the **rethinking of teachers' digital competence** is **essential** given the potential of these networks as a force for **change** and **create** professional knowledge

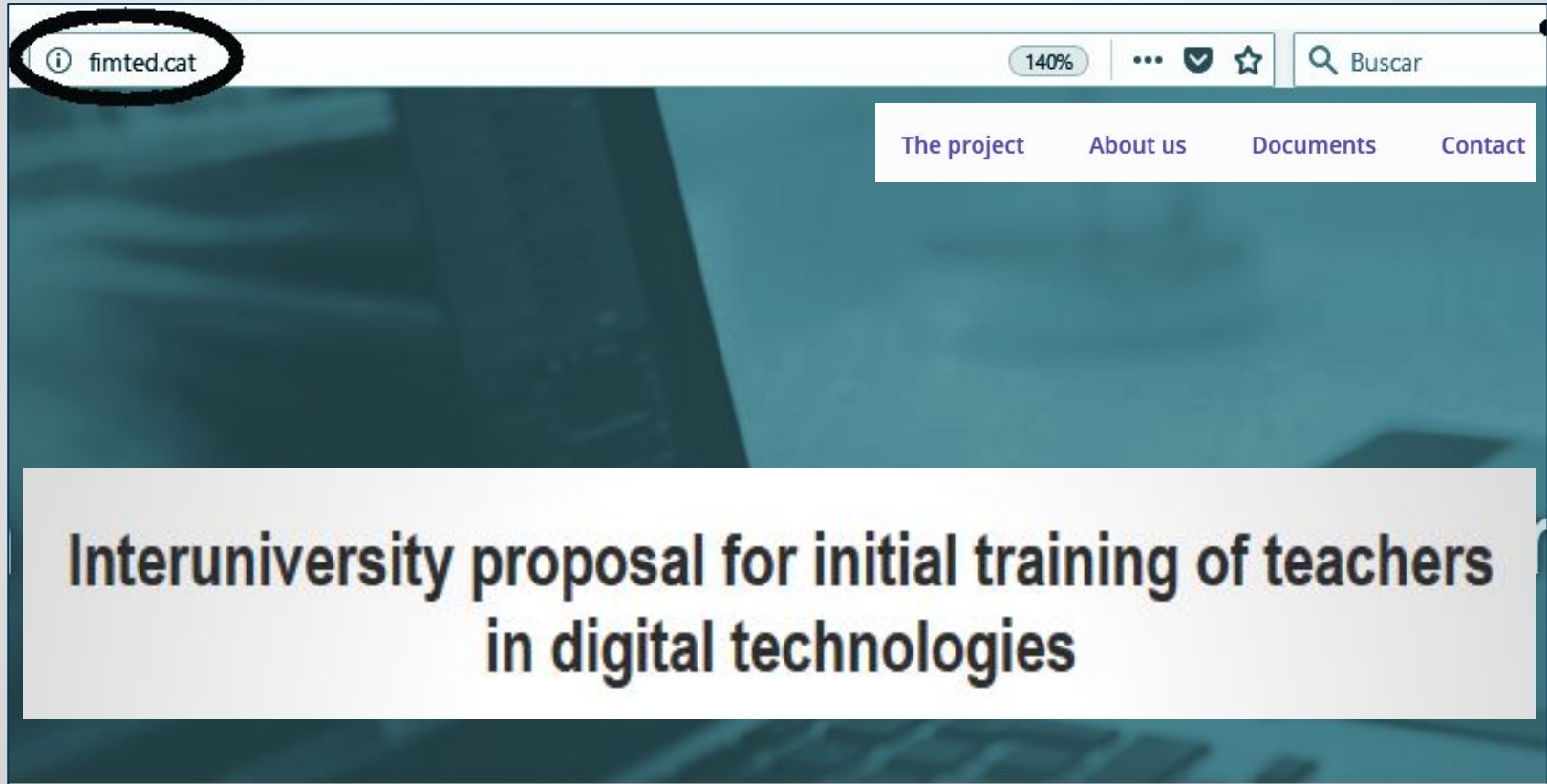
(Carpenter & Krutka, 2015; Forte, Humphreys, & Park, 2012; Trust, Krutka, & Carpenter, 2016).

QUESTIONS

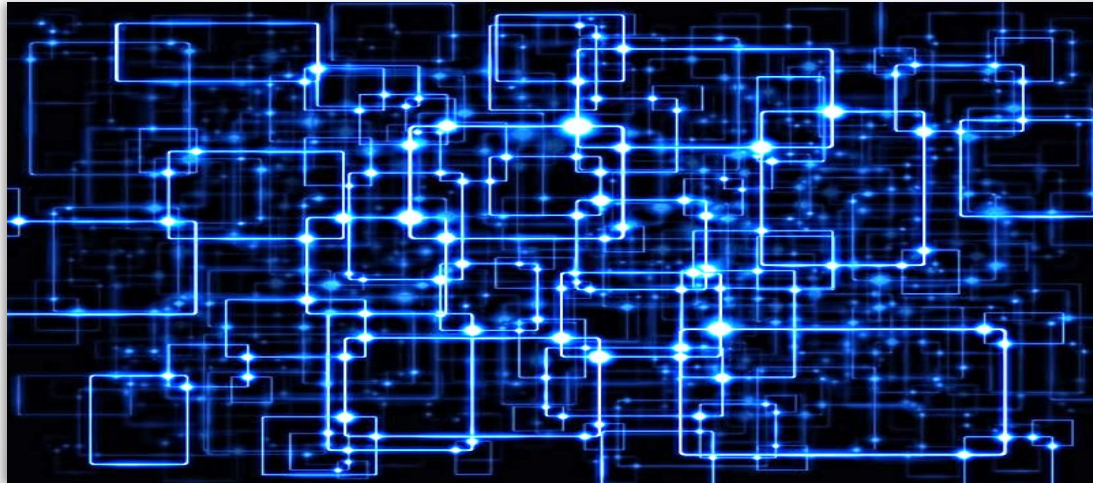
- **What is the teacher networks' appraisal** in relation to the development of teachers' digital competence?
- **What to prioritize** from the dimensions and descriptors of teachers' methodological digital competence (MDC) according to teacher networks?

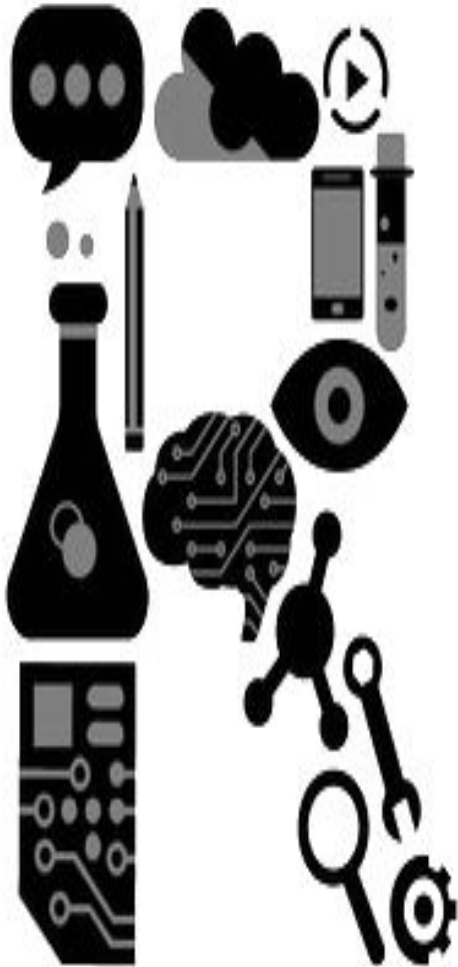


SHARING



2. METHODOLOGY, RESEARCH INSTRUMENTS AND SOURCES





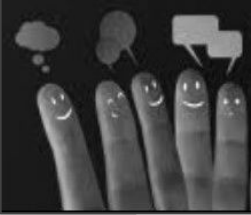
Two **instruments** were used to **collect data**:

- Focus Groups.
- Survey Questionnaire.

FOCUS GROUPS

- A discussion group was **conducted** at the UB.
- **10 teachers** belonging to 5 Catalan teacher networks.
- **The group focused on 2 questions** with regard to the training of future teachers.

Catalan
teacher
networks



R O S
S E N
S A T

 **espiral**
educació i tecnologia

 **Xarxa de
Competències
Bàsiques**

MRP

iEARN

pangea

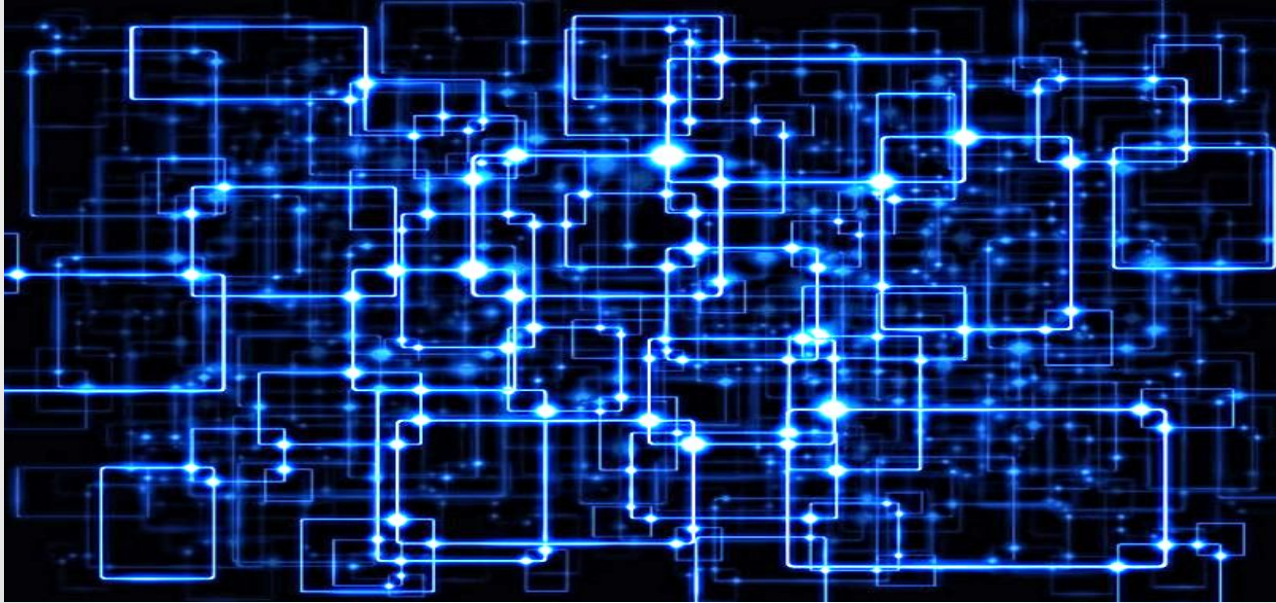
SURVEY QUESTIONNAIRE



- A survey of closed questions was developed with items from the **5 dimensions** of the MDC and **its descriptors** defined by the DEGC (2016, 2018).
- **Each item** could be evaluated according to the degree of importance for the training, in the Teacher's Degree.
- What has this questionnaire **permitted** us to know
- **305 teachers responded.**

Dimension
1. Design, planning and didactic implementation
2. Organisation and management of spaces and digital resources.
3. Communication and collaboration
4. Ethics and digital civism
5. Professional development

3. OUTCOMES



SURVEY QUESTIONNAIRE



Prioritisation of the dimensions

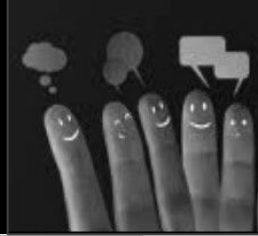
Prioritised Dimensions (n° identifier)	
Communication and collaboration (3)	4.20
Professional development (5)	4.14
Ethics and digital civism (4)	4.12
Design, planning and didactic implementation (1)	4.05
Organisation and management of spaces and digital resources (2)	3.96

Prioritisation of descriptors of Dimension 4: Ethics and digital civism

Descriptors (n° identifier)	Average
Responsible, safe and the healthy use of digital technologies (4.2)	4.46
Protection of fundamental rights to personal privacy and image in the use of digital technologies (4.1)	4.41
Promotion of access to resources respecting intellectual property (4.3)	4.21
Fostering digital inclusion (4.4)	4.18
Fostering the construction of a proper digital identity (4.5)	4.16

Prioritisation of the descriptors of Dimension 1: Design, planning and didactic implementation

Descriptors (n° identifier)	Average
Use of digital technologies like resources and strategies in teaching and learning processes (1.1)	4.14
Use of digital technologies to attend to the diversity of students (1.5)	4.05
Selection of digital resources for the design of activities and didactic planning (1.2)	4.03
Incorporation of digital technologies in coherence with the educational project and the infrastructures of the school (1.3)	4.03
Application of innovative methodologies with the use of digital methodologies (1.7)	4.03
Incorporation of the digital competence of students with the didactic programmes (1.4)	4.02



FOCUS GROUPS

- The **educational potential** of the **Internet**.
- The **value of social networks**
(Romeu, Guitert, y Sangrà, 2016).
- It's necessary a **change** in the **teaching methodology**.
- It **varies** the **role of students** and the **role of the teachers**
(García-Galera & Valdivia, 2014, p. 10).
- The need to emphasise those **pedagogical aspects**
(Camacho & Esteve, 2017).
- **Deficient ICT and informational literacies**
(Guzmán-Simón et al.).



TO CONCLUDE

- This research has intended **to give voice to teacher networks.**
- This **rethinking** can gradually turn university into a **learning institution**
(Domingo-Coscollola, Arrazola-Carballo, & Sancho-Gil, 2016).
- We hope that **this vision** can be taken into account and **add value** to the **design** of future training proposals.

REFERENCES

- Camacho, M., y Esteve, F. (2017). El uso de las tabletas y su impacto en el aprendizaje. Una investigación nacional en centros de educación primaria. *Revista de Educación*, 379, 170-191. doi: 10.4438/1988-592X-RE-2017-379-366
- Carpenter, J. P., & Krutka, D. G. (2015). Engagement through microblogging: educator professional development via Twitter. *Professional Development in Education*, 41(4), 707-728. doi: 10.1080/19415257.2014.939294
- Departament d'Ensenyament de la Generalitat de Catalunya (2016). Resolución ENS/1356/2016, de 23 de mayo, por la que se da publicidad a la definición de la Competencia digital docente. Diari Oficial de la Generalitat de Catalunya, 7133. Recuperado de <https://goo.gl/4gXKp2>
- Departament d'Ensenyament de la Generalitat de Catalunya (2018). Competència digital docent del professorat de Catalunya. Barcelona: Generalitat de Catalunya.
- Domingo-Coscollola, M., Arrazola-Carballo, J., & Sancho-Gil, J. M. (2016). Do It Yourself in education: Leadership for learning across physical and virtual borders. *International Journal of Educational Leadership and Management-IJELM*, 4(1), 5-29. doi: 10.17583/ijelm.2016.1842
- Forte, A., Humphreys, M., & Park, T. H. (2012, May). Grassroots Professional Development: How Teachers Use Twitter. In J. G. Breslin (Chair), *Proceedings of the Sixth International Conference on Weblogs and Social Media-ICWSM-12*. Dublin: AAAI Press.
- García-Galera, C., & Valdivia, A. (2014). Media Prosumers. Participatory Culture of Audiences and Media Responsibility. *Comunicar*, 43(22), 10-13. doi: 10.3916/C43-2014-a2
- Guzmán-Simón, F., García-Jiménez, E., & López-Cobo, I. (2017). Undergraduate Students' Perspectives on Digital Competence and Academic Literacy in a Spanish University. *Computers in Human Behavior*. 74, 196-204. doi: 10.1016/j.chb.2017.04.040
- Romeu, T., Guitert, M., y Sangrà, A. (2016). Teacher collaboration network in Higher Education: reflective visions from praxis. *Innovations in Education and Teaching International*, 53(6), 592-604. doi: <https://doi.org/10.1080/14703297.2015.1025807>
- Trust, T., Krutka, D. G., & Carpenter, J. P. (2016). "Together we are better": Professional learning networks for teachers. *Computers & Education*, 102, 15–34. doi:10.1016/j.compedu.2016.06.007



thank you!

The role of Teacher Networks as agents for change in shaping teachers' digital competence

MAR CAMACHO

Universitat Rovira i Virgili (URV)

MARIA DOMINGO-COSCOLLOLA

Universitat Internacional de Catalunya (UIC)

MONTSE GUITERT

Universitat Oberta de Catalunya (UOC)

