

CIDTFF - Research Agenda 2018-2022

Objectives

- develop research about educational topics and issues meaningful for educational actors and systems, in articulation with societal challenges and able of contributing with answers which are contextually adequate, in the ambit of the center's thematic axes;
- develop research-based educational proposals (including technological-based resources) for the development of transversal competences (e.g. intercultural, critical thinking, creativity, digital skills, research skills), in different levels (from pre-school to Higher Education, including advanced training and Life Long Learning) and contexts (schools, academic, work, mobility, ...);
- analyse the implementation of (national and international) educational policies and contribute to their definition (guidelines, frameworks, instruments);
- intensify research on issues concerning educational research, aiming at its sustainability and impact;
- design, implement and assess programmes and mechanisms for supervising education, training and professional development of diverse actors and institutions;
- reinforce the development of knowledge and resources within qualitative research methodologies in education, analyzing their role in the process of scientific knowledge construction.

Research lines

1. Education for the development of sustainable communities and societies

Diversities and inclusive education

- description of inclusive practices for people in vulnerability (linguistic, psycho/social, cultural, cognitive, physical, hospitalized persons, gender discrimination, professional occupation); analysis of devices/measures developed in schools to promote the curricular inclusion of vulnerable children;
- description of professional development of educators who work in the previous situations (eg. heritage language teachers);
- design of innovative educational proposals, guidelines and resources to promote learning and training within a perspective of education for all (including for people with disabilities and in the context of Early Intervention).

Well-being and empowerment

- development of (digital) resources: occupational safety and health education; sexuality and equality; privacy and security on social networks;
- study of psychosocial vulnerability associated to school stress, addictions, illness and development of intervention programs;
- analysis of transversal competences and development of devices and training programs for improving employability.

Plurilingualism, intercomprehension and interculturality

- monitorisation of the introduction of the European Portfolio of Plurilingual Practices in primary education and of intercomprehension devices in language teacher training;
- development of a plurilingual framework for language teachers and of educational resources and toolkits for linguistic and cultural awareness.

Education for sustainability

- analysis and development of teaching/learning sequences within a sustainability perspective;
- smart cities and smart schools learning: development of a network of geomentors (teachers, students, local actors) who share spatial data relevant to local development.

Awareness in Higher Education

- analysis of practices and programs and elaboration/evaluation of proposals for curricular approaches of themes related to societal challenges (eg mobility, identities, sustainability, inclusion, diversities, environmental issues, sexuality education, interculturality, global citizenship) in different disciplines and training cycles, including a comparative perspective (European, Latin-American and African countries).

Examples of ongoing projects

EN-ABILITIES (en-abilities.eu; 2017-2020)

Amicae (analyse-des-mediations-innovantes-de-la-culture-et-de-l-art-pour-une-europe-ouverte-amicae; 2016-2019)

Mind Safety-Safety Matters! (up2europe.eu/european/projects/mind-safety-safety-matters_85799.html; 2015-2019)

Examples of outcomes

Observatório de Práticas de Educação Inclusiva

Training materials for plurilingual and Intercultural Education

Intercomprehension online Sessions

Toolkits and Mooc for Vocational and Educational Training practitioners (in VET4EU2 Platform)

2. Education and multiliteracies for the development of Critical Citizens

Languages, Cultures and Literacies

- elaborating on the concept of multiliteracy pedagogy and multilingual and intercultural education, its articulations, implications and potentialities in diverse education and training contexts;
- description of plurilingual literacy practices at schools and in teacher education (including CLIL approaches) and development of projects, strategies, programmes and resources to potentiate them;

- analysis of the role of languages/cultures in knowledge and identities construction processes (eg. transversality of Portuguese language/mother tongue; English as a *lingua franca*; plurilingual communication);
- development and evaluation of activities and programs addressed to language skills (reading, writing, interacting).

Scientific literacy and critical and creative thinking

- analysis of teaching/learning processes that promote critical and creative thinking (several educational levels);
- development of research-based proposals, didactical resources and a framework of good practices for critical and creative thinking.

Digital literacies and multimodal practices

- analysis of multimodal and digital literacies practices (different actors: children, teachers, trainee teachers, academics....) to propose research and training agendas;
- development of educational resources to promote STEAM-based practices;
- development of digital resources and toolkits for education and training of diverse publics (all educational levels, vulnerable publics, digital immigrants, academics, teachers), using innovative technologies (augmented reality, games, learning platforms, communities of practice, virtual worlds, interactive videos, MOOC,...) that promote digital, educational and social inclusion and employability;
- monitoring the development of tools for assessing and certifying digital competence (DigCompEdu).

Research literacy

- development of frameworks and assessment instruments for (e-)research literacy.
- WEBQDA: extension to other domains (eg. e-business) and corpora (social networks, visual methods).

Examples of projects

CRITHINKEDU: Critical Thinking Across the European Higher Education Curricula (crithinkedu.utad.pt; 2016-19)

CYTPENCRI: Education of scientific, technological and critical thinking competencies by teaching nature of science and technology themes; 2016-19)

EduPARK: Mobile Learning, Augmented Reality and Geocaching in Sciences Education (edupark.web.ua.pt; 2016-19)

TangIn: Promoting inclusion and a STEM curriculum in schools through the use of tangible programming concepts and activities; inovamais.eu/noticias/projeto-tangin; 2017-19)

Examples of Outcomes

European collection of critical thinking skills for different professional fields

Tools for assessing critical thinking skills

3. Quality and evaluation of education, training and research

Education policies and development

- analysis and research-based proposals for educational policies and systems (international contexts, namely of cooperation): quality indicators (S. Tomé e Príncipe); national languages at school (Angola, Mozambique); administration of educational systems (Angola, Mozambique); National Reading Plan (Brazil)
- analysis and evaluation of programs/measures and their impact on education quality (local and national contexts): pedagogical guidelines for 0-3 children; English in primary school; experimental teaching of science; projects to combat academic failure and to curricular/pedagogical innovation.

Innovation in Higher Education

- development of proposals for transversal/key competences of academics and students (global, intercultural and plurilingual, critical thinking, creativity, academic writing);
- analysis of internationalization practices in Higher Education (comparative analysis in ibero-american context);
- development of platforms for interaction between different actors (stakeholders, researchers, teachers, students, etc) and analysis of how knowledge is built in these interactions.

Professional development and practices:

- development of the Multimodal Professional Narratives platform integrating more disciplines (STEAM, languages, physical education), extending professional practice situations (initial training, trainees, nurses ...), disseminating it and collecting contributions within established networks (eg. Angola, Brasil), in order to build knowledge that can be shared and that contributes to scientific and educational advancement.
- Develop devices (including supervision scenarios) to improve the professional development and practices.

Integrated approaches (formal and non-formal contexts) in education and training:

- assessment of the impact of the work on experimental science education in collaboration with local authorities;
- expansion, in collaboration with different stakeholders, of innovative educational spaces (garden, street, supermarket, degraded urban areas) and analysis of their potentialities (namely in teachers' skills).

Sustainability of research

- analysis of research processes and knowledge construction in contexts of: i) internationalization (eg, researching across languages and cultures; mobilities and researcher development); collaborative research (networks of researchers and teachers; researchers and stakeholders);
- development of tools for research assessment;
- description of processes of (online) supervision of research and definition of criteria of quality of advanced training and researchers' training;
- impact analysis of the research in education and of scientific communication;
- development of knowledge on qualitative research methodologies, namely supported by distributed technologies.

Examples of projects

EVAL-IC - Evaluation des compétences en intercompréhension: réception et interactions plurilingues (evalic.eu; 2016-19)

COMPEUnurse: Competence of nursing students in Europe (<https://goo.gl/iQYzmV>; 2017-21)

Examples of outcomes

Framework for the Assessment of Competences in Intercomprehension

Annual Iberian-American Conference and CQR - World Conference on Qualitative Research

International network to support on-line supervision of research

Multimodal Narrative portal: extension