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IO3 - NATIONAL CONDITIONS FOR INTEGRATING ICT IN EDUCATION – "ITALY"

MULTIPLIER EVENT

2 Feb 2018

Erasmus+

INDEX

NATIONAL FRAMEWORK

European Digital Agenda 19.05.2010

D.Lgs. 82/2005 Digital Amministration Code

integration Digital Amministration CodeD. Lgs 235/2010

Urgent provisions for simplification and development D.L. 5/2012 - (Art.47

Conversion into law PROVISIONS for SIMPLIFICATION L. 35/2012

D.L. 179/2012 Implementation of the Italian Digital Agenda conv. in L. 221/2012 urgent measures for the growth of the country

Address Act MIUR n. 3/2013 Political priority n. 8 Modernization of the school system

PuntoEdu 2001

Progetto ForTIC 2002

Digital National School Plan (PNSD) (2009-2010)
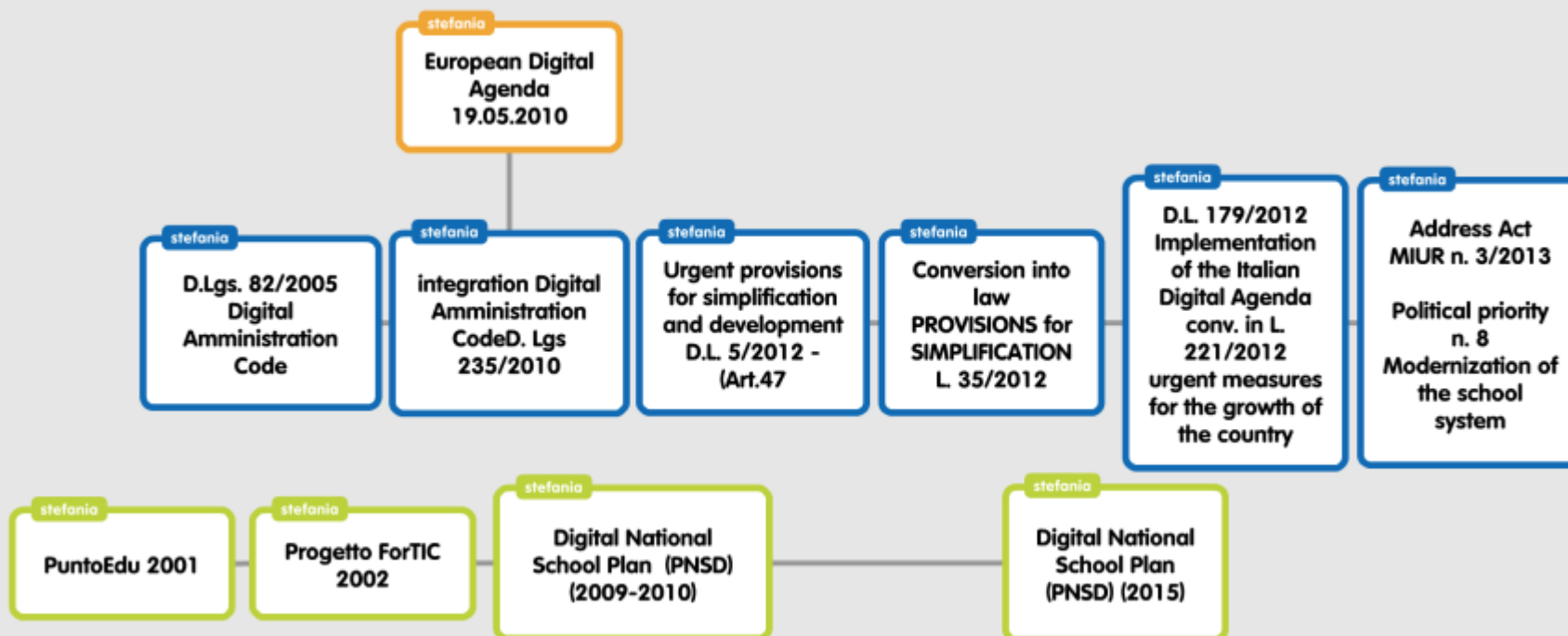
Digital National School Plan (PNSD) (2015)

Fig 1 – PNSD investment (Source PNSD MIUR)

	2015	2016	2017	2018	2019	2020	TOT
Buona Scuola Funds							
Buona Scuola Funds PNSD (National Digital School Plan)	90	30	30	30	30	30	240
Buona Scuola Funds –Training		10	10	10	10	10	50
Buona Scuola Funds –Changes (consequences)		10	10	10	10	10	50
PON "Per la Scuola" (Education) FESR 2014-2020							
Internal wiring (Wi-fi)	88.5 on the 2015-2017 three-year period						88,5
Creative workshops for base skills	40 on the 2015-2017 three-year period						40
Digital laboratories for acquiring professional skills	140 on the 2015-2017 three-year period						140
Digital education environments	140 on the 2015-2017 three-year period						140
On-line register (primary schools)	48 on the 2015-2017 three-year period						48
PON "Per la scuola" FESR 2014-2020							
Training		25	15	15	15	15	85
Skills		20	20	20	20	20	100
OTHER MIUR FUNDS							
Law 440/97	3	4	4	4	4	4	23
ICT Plan	15	15	15	15	15	15	90
TOT							**1094,5**

INNOVATION PATHWAYS | *Didacta Italia Fair*
National Institute for Documentation,
Innovation and Educational Research.

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Genuine communication learning with ICT (Language Arts):
COMPITA. Le competenze linguistiche in italiano / Linguistic competences in Italian

Posing and Solving problems in the App-Era (Math)
Real Time Technologies Laboratory (RTL) or MBL Microcomputer Based Laboratory

Virtual labs (Science & Technology)
IT-aly project: free platform: **LSOSAlab developed by UniRoma3 Department of Science**
PP&S (Problem Posing & Solving): PPS platform
Fisica a Scuola – **LITE** / Skyorb (**Astronomical geography**)

Digging far and beyond with several clicks (History, Geography, literature, philosophy)
DEA - SSF Storia and for geography: **Atlante Mondiale** (**Mondial Atlas**)

Creating Minds – Creative Apps (Music, Visual Art, Performing Arts)

Music is school": http://www.musicaescuola.it/
Father and Son, by National Archaeological Museum of Naples – MANN

The Helping (Hand) / connection (Counseling and Guidance)

Beyond a disciplinary approach
Virtual and augmented reality, immersive environments to enhance learning
Robotics at school

Website and platforms for public administration and school digital innovation

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S.O.F.I.A.

Il Sistema Operativo per la
Formazione e le Iniziative
di Aggiornamento dei docenti

Co-funded by the
Erasmus+ Programme
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SWOT Analysis

STRENGTHS

- INVESTMENTS
- REFORMS
- INNOVATION IN DIGITAL TRASFORMATION OF PA
- POLE SCHOOL
- RATIONALISZATION OF TRAINING SYSTEM
- SEVERAL GOOD PRACTICES
- DIGITAL ANIMATOR INVOLVED
- GROWING AND AWARNESS
- CRITICAL REFLECTION....

WEAKNESSES

- FRAGMENTATION OF EXPERIENCES
- DIFFICULTY IN DOING SYSTEM
- ABSENCE OF VALORISATION SYSTEM
- DEFICIENCY OF IN SERVICE TRAINING SYSTEM
- ABSENCE OF E-LEADERSHIP......

OPPORTUNITIES

- INNOVATION AND SPERIMENTATION
- RICHNESS OF THE DEBATE AND EXPERTS
- ORGANIZATIONAL AND TEACHERS EMPOWERMENT
- REDEFINING VALUES AND SOCIAL PACT BETWEEN SCHOOL AND SOCIALE SYSTEM and FAMILIES...

THREAT

- DIGITAL DIVIDE
- CONFLICT OF COMPETENCES AMONG INSTITUTIONS AT DIFFERENT LEVEL
- ABSENCE OF IMPORTANT DIGITAL PLAYER
- ABSENCE OF A NEW SCHOOL VISION
- ABSENCE OF A DIGITAL SKILL FRAMEWORK FOR TEACHERS
- ABSENCE OF AN EMPOWERMENT PROFESSIONAL TEACHERS SYSTEM....

RECOMMENDATIONS FOR EFFECTIVE INTEGRATION OF ICT IN THE TEACHING AND LEARNING PROCESSES

Infrastructural dimension

Complexity of governance system
Central level - Regional level - Local level

Evaluation system

School managers

WORKING PROGRESS

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Central system

- Investing more on involvement and training at different levels
- Rethinking recruitment and career paths
- Giving time and gradualness to the reforms
- Ensure monitoring of actions that are financed through public funds, in order to evaluate and redesign or redirect the shot
- Define profiles and skills of the educational staff

Meso implementation level
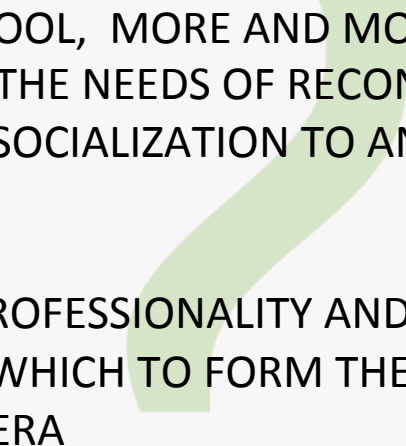
Govern the processes of territorial implementation by:
- an ecological and systemic approach
- the Open data management

Organizational level

- Plan the desing of the school in a medium period
- Assure en empowerment process for teachers and students
- Encourage the practice of sharing

EMERGING ISSUES

- CENTRAL ROLE OF SCHOOL, MORE AND MORE MARKED BY THE CRISIS OF TRASMISSION AND THE NEEDS OF RECONSTITUTING PATHS OF SUBJECTIVATION AND SOCIALIZATION TO AND BY DIGITAL TECHNOLOGIES

- CRISIS OF TEACHING PROFESSIONALITY AND THE NEED TO REBUILT NEW ROUTES WITHIN WHICH TO FORM THE NEW PROFESSIONAL HABITUS FOR DIGITAL ERA

QUESTION TIME FOR TEAM WORK

COMPARATIVE REPORT:

1. What are the common and different elements that emerge from the national research on these specific themes:

- *Initial and continuous teacher training system*
- *Official quality assurance and evaluation tools and procedures at national level*
- *The state of the art of effective integration of ICT in the teaching and learning processes*

2. Which elements of interest or critical issues it is useful to underline in a comparative key, referring to:

- *Education policies*
- *Best practice*
- *Strengths and weaknesses of educational systems*