

RICONNESSIONI

educazione al futuro

Innovation, Inclusivity, and Creativity for the Schools of Tomorrow

June 2018



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THE PROGRAMME

Prepare Viola for 2030



Viola is 6 years old, she has just started primary school and won't graduate from compulsory schooling till 2034...

What must she learn to face the challenges of 2030? What educational paradigm could adequately support her personal and professional growth?

RICONNESSIONI IS DESIGNED TO TAKE CARE OF VIOLA'S FUTURE

THE PROGRAMME

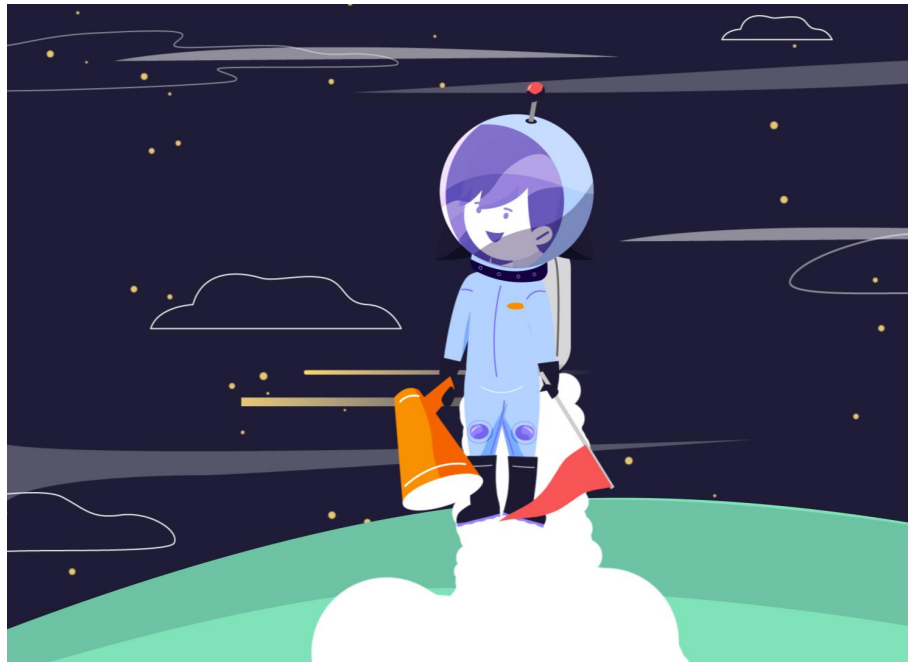
What is Riconnessioni?

LESSONS FOR THE FUTURE

Riconnessioni is designed to **eliminate the physical and cultural barriers that prevent schools from innovating.**

It works on **two levels**: firstly, **innovating the spaces and times devoted to learning** and developing new **professional competences** in schools. Secondly, introducing a **new model of internet connectivity for schools** designed to enable individualized and interactive **pedagogical models**.

The project is aimed at all schools, starting from the **primary and lower-secondary schools** of Turin and its metropolitan area: **350 school buildings** inhabited by almost 100.000 students.



THE PROGRAMME

A project, a model, a vision



RICONNESSIONI

Lessons for the Future

RICONNESSIONI is an **INNOVATION PROGRAMME**

1. RICONNESSIONI is a scalable and replicable intervention **MODEL**.
1. RICONNESSIONI is a concrete **PROJECT** which we are running (in Turin and other cities).
1. RICONNESSIONI is made of **IDEAS** on educational innovation and social inclusivity which we **define together**.

To build a school where **INNOVATION, INCLUSIVITY and CREATIVITY** take center stage

THE PROGRAMME

The model

RICONNESSIONI proposes a **model** based on 4 elements/levels of intervention:

- 1. FIBER-OPTIC BROADBAND** - Schools must be guaranteed **fast, safe, and neutral internet connectivity** via fiber-optic broadband
 - 2. NEXT GENERATION NETWORKS** - the connectivity infrastructure must meet the needs of teachers and learners and lead to **improved performance and safety**
 - 3. PEDAGOGICAL AND PROCEDURAL INNOVATION** - Schools are in the foreground of change and are **directly engaged** through a **commitment to innovative pedagogy**
 - 4. PROFESSIONAL DEVELOPMENT** - the building of **communities of practice**, as well as **innovative methodologies and pathways for professional development** is at the heart of the innovation programme.
- The model is **currently being rolled out in Turin but is replicable in any territory** (Cuneo, Naples, etc.)



THE PROGRAMME

The project in Turin

RICONNESSIONI: TURIN AND ITS METROPOLITAN AREA

350 school buildings

140 schools

4.200 classrooms

98.000 students

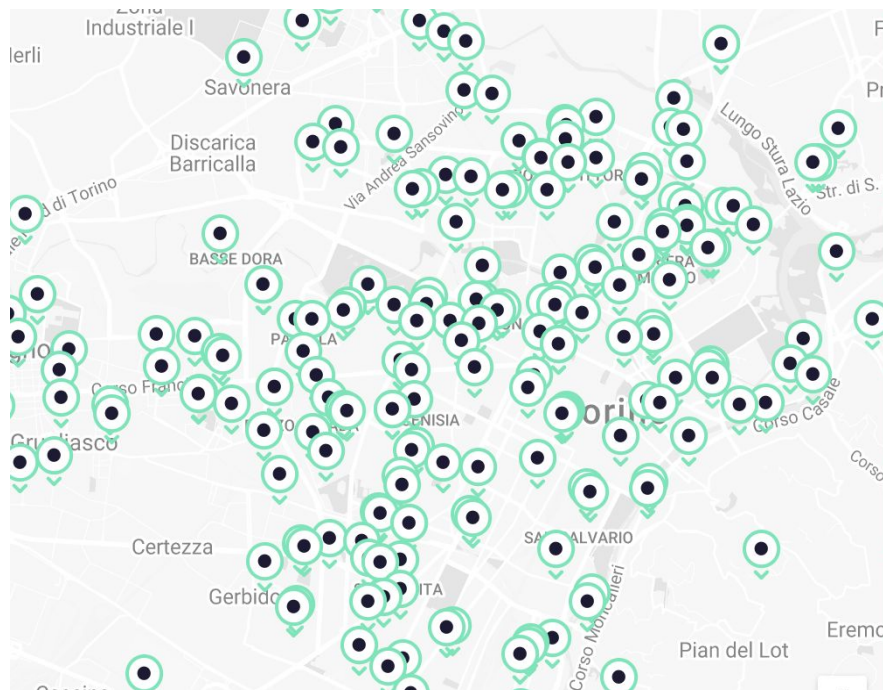
1.800 teachers receiving direct training

5.000 teachers reached in 3 years (through peer-to-peer dissemination)

€10 Million investment

The school's network will become the connective tissue of **TORINO SMART CITY**

The infrastructural work is carried out in partnership with **OPEN FIBER**



Riconessioni deals with the challenges we face as **education changes**

Riconessioni's vision is a starting point, a way to reach out and exchange ideas

Riconessioni believes in the synergy between **innovation** and **inclusivity** and wants to promote an open and inquisitive idea of schooling, **a lab** built for **experimentation** and **challenging preconceived notions** of what education should look like



SVILUPPI COMPETENZE REALI

Legate alla realtà, al saper fare, al controllo delle tecnologie e al lavoro di gruppo.



SAPPIA ESSERE UN LABORATORIO

Dove una comunità operosa realizzi progetti attraverso un apprendimento esperienziale.



APRA LE PORTE

ai vicini, ma anche a chi è lontano, per comunicare accoglienza e conoscere le diversità.



INCLUDA TECNOLOGIE INNOVATIVE

come robotica e realtà virtuale, che arricchiscano l'insegnamento invece di ostacolarlo.



SAPPIA CAMBIARE SE STESSA

Come un sistema in costante evoluzione, in cui ogni parte sia interconnessa alle altre.



FORMI CHI FA SCUOLA

Grazie a percorsi articolati per innovare anche le strategie didattiche e pedagogiche.



GUIDI I PROPRI DIRIGENTI

Verso una gestione delle risorse in cui la tecnologia sostenga progettualità e creatività.



CAMBI CON IL CONTRIBUTO DI TUTTI

Insegnanti, dirigenti, studenti, genitori, società: la nostra scuola è un progetto comune.

THE PROGRAMME

An international perspective



AN INTERNATIONAL BEST PRACTICE

Riconnessioni builds bridges between Italy and the rest of the world, collaborating with international actors in the **European Commission's Digital Skills and Jobs Coalition** and in communities of practice such as **Computing at School** in the **United Kingdom**.

Riconnessioni builds on a tradition of systemic innovation projects in education (such as the Plan Ceibal and the Investing in Education - i3 fund) but is unique in terms of scale, public-private partnership and systemic approach.

LEVELS OF INTERVENTION

LEVELS 1 and 2 THE NETWORK

LEVELS OF INTERVENTION - LEVELS 1 and 2

just like electricity



JUST LIKE ELECTRICITY SIMPLE AND SAFE

Digital infrastructure must become as simple and reliable as electricity: you walk into a room, you press a button and the light comes on. 5 minutes lost trying to reset a router can be enough to lose the class's attention altogether, in particular in primary and lower-secondary school.

To make digital infrastructure as reliable as electricity, we must change the current system and introduce new technologies, services, and management procedures.

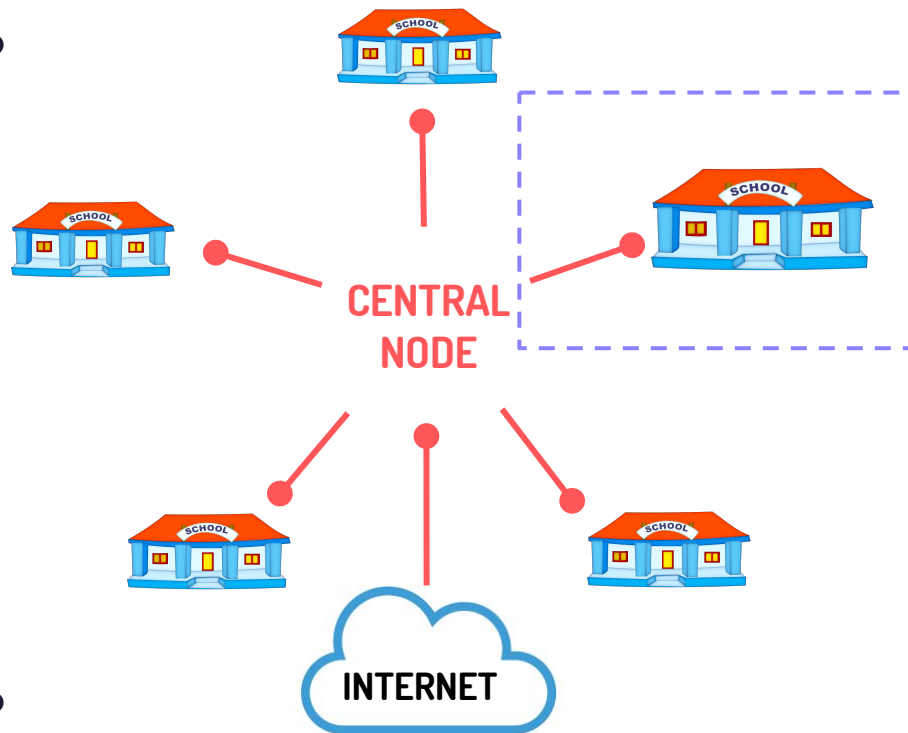
LEVELS OF INTERVENTION - LEVELS 1 and 2

Level 1 Fiber-optic broadband for all school buildings

METROPOLITAN FIBER-OPTIC NETWORK

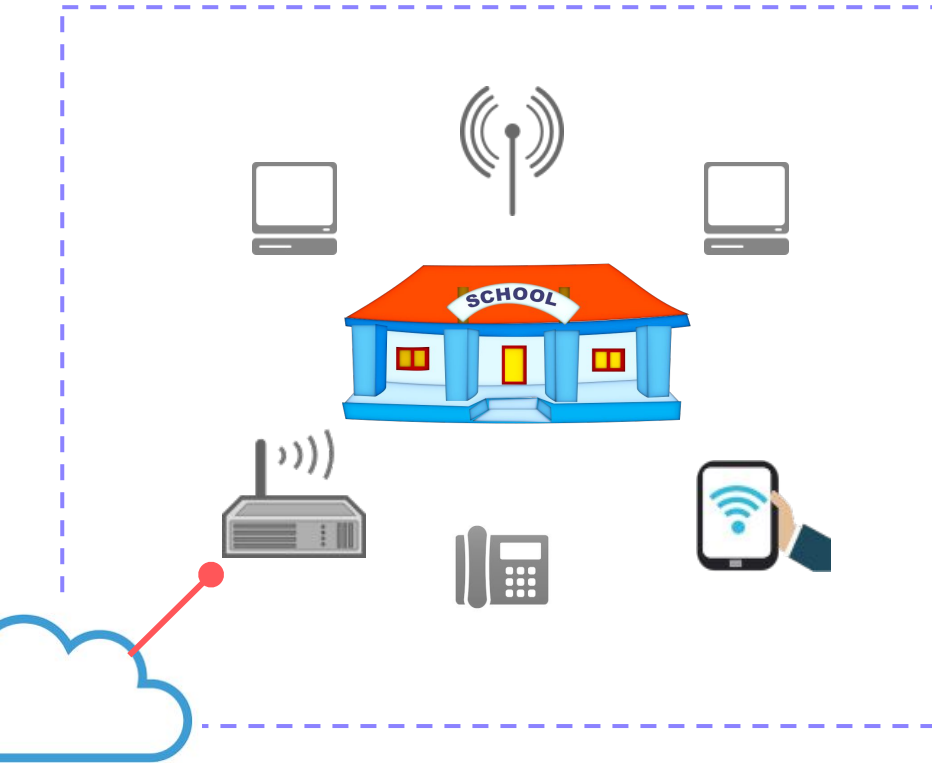
Thanks to OPEN FIBER's contribution, Riconnessioni is bringing fiber-optic broadband to all school buildings.

With regard to the city of Turin, the network will be organized around two central nodes, one in the north of the city and one in the south, so as to optimize the laying of connections between schools and these hubs. This setup will ensure the resilience of the network and the distribution of connectivity all around the city.



LEVELS OF INTERVENTION - LEVELS 1 and 2

Level 2 Internal infrastructure



INTERNAL INFRASTRUCTURE FOR SCHOOLS

Besides building a new fiber-optic network dedicated to schools, Riconnessioni aims to contribute significantly to the improvement of schools' internet connectivity infrastructure, to ensure all buildings are equipped with solid, capable, and far-reaching local networks.

LEVELS 3 and 4 PROCEDURES AND TEACHING

LEVELS OF INTERVENTION - LEVELS 3 and 4

360° Innovation

CODESIGN & ENGAGEMENT

Riconnessioni supports and facilitates change in schools, but avoids prescriptive or one-size-fits-all solutions. Participation in the programme is **voluntary but regulated by “contract”**.

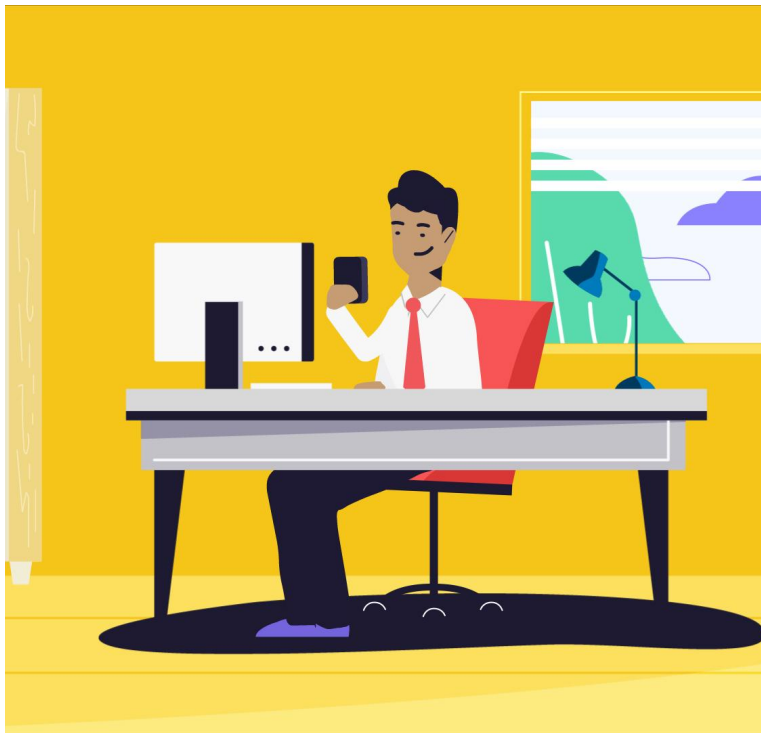
Furthermore, Riconnessioni's structure and offering has been codesigned with school leaders and teachers, ensuring all relevant needs are met.

Also, thanks to an agreement with the Ministry of Education's local authority, part of the teacher training programme is delivered in synergy with the Ministry's National Plan for Teacher training 2016- 2019.



LEVELS OF INTERVENTION - LEVELS 3 and 4

Level 3 procedures and administration



CHANGE MANAGEMENT

What is this next generation technological infrastructure for? At the moment, the way schools use digital technologies is “chaotic”, with little communication between paper-based and digital platforms for school management.

Riconnessioni supports schools in facing digital transformation (as digital tools lead to organizational changes) and developing new **change management skills**.

LEVELS OF INTERVENTION - LEVELS 3 and 4

Livello 4 Teacher training

LESSONS FOR THE FUTURE

Starting from technological infrastructure, Riconnessioni aims to activate a broad **network of teachers, parents, and students** around the future of teaching and learning. At the heart of the project is the desire to promote **innovation by sharing** practices, bringing together schools and their communities.

Riconnessioni offers teacher training programmes based on the idea that **technology is invisible** (because their availability is taken for granted and they are safe and reliable) and **instrumental** to learning (rather than distracting from it).



TEACHER TRAINING PATHWAYS

TEACHER TRAINING PATHWAYS - CLASSROOM 2030

What is Classroom 2030

TWO CHANNELS OF TRAINING AND PEDAGOGICAL EXPERIMENTATION:

A) A CLASSROOM FOR TEACHERS

Training pathways for the teachers, headteachers and heads of administrative services of the schools participating in RICONNESSIONI

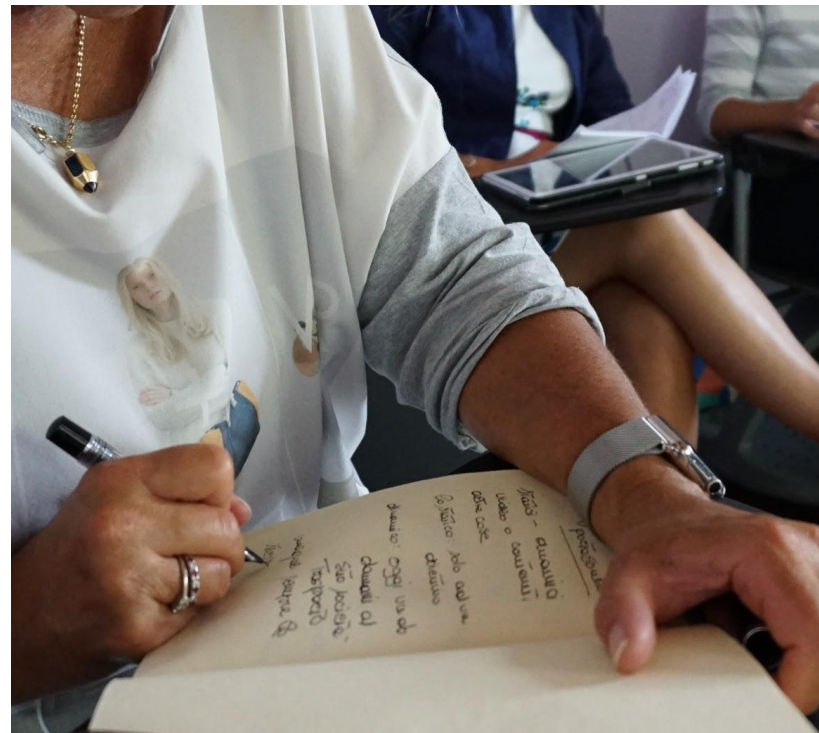
B) A CLASSROOM FOR EVERYONE

1. A **space** which is open to parents, students, kids, and the community
2. A **programme** of events, seminars, and workshops
3. An opportunity to **collaborate** with important national and international actors



The format

each teacher chooses which items to prioritize, depending on their needs, the needs of their students, and the needs of their school



TEACHER TRAINING PATHWAYS - THE LABS

The themes of the Labs

Labs for teachers

Riconessioni Lab

Digital content creation

Innovative pedagogy and inclusivity

Being Digital

Computational thinking

Labs for parents

Beyond the school gates

Lab for headteachers and heads of administrative services

The school and its procedures

WORKING WITH SCHOOLS

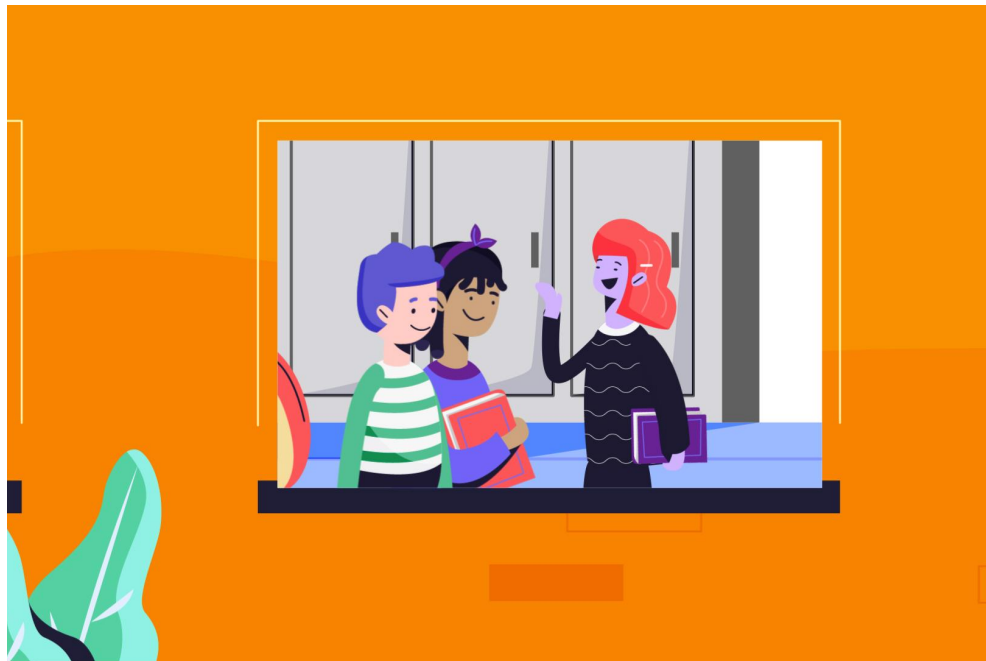
WORKING WITH SCHOOLS - RICONNESSIONI'S VISION

The pedagogical dialogue

A PEDAGOGICAL DIALOGUE

Riconnessioni supports an idea of cooperative learning which puts the talent, intelligence, and competencies of students at center stage.

Riconnessioni does not represent a single model in terms of pedagogy, but, as a result of its breadth and complexity, it brings together different points of view and methodologies, allowing each school to **find its own distinctive pedagogical strategy**.



RICONNESSIONI AND PARTNERS

RICONNESSIONI AND ITS PARTNERS

A commitment with each school

“RICONNESSIONI: LESSONS FOR THE FUTURE” is a Compagnia di San Paolo project, run by Fondazione per la Scuola in collaboration with Open Fiber and many other public and private partners



Compagnia
di San Paolo



Fondazione
per la Scuola
Compagnia di San Paolo

open fiber

RICONNESSIONI AND ITS PARTNERS

A commitment with each school

INSTITUTIONAL PARTNERS



*Ministero dell'Istruzione, dell'Università e della Ricerca
Ufficio Scolastico Regionale per il Piemonte*



SCIENTIFIC PARTNERS



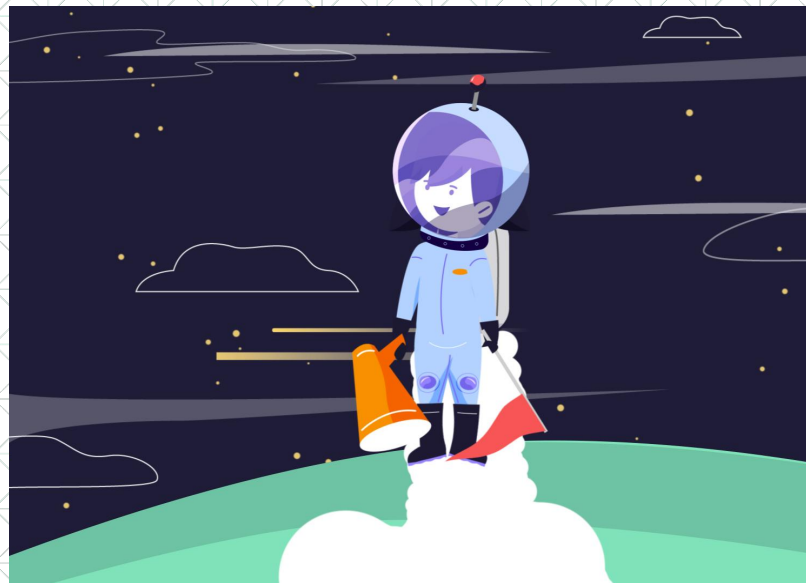
Istituto per le Tecnologie Didattiche

Consiglio Nazionale
delle Ricerche





RICONNESSIONI
Lessons for the Future



Preparing Viola for whatever the future may hold

RICONNESSIONI

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