

## Chile Raises the Nation's Science Awareness



Chile's national science education trends have greater ambitions that just to produce tomorrow's scientists, doctors and researchers. In fact the aim is to create a whole generation of citizens with a higher scientific consciousness and awareness of their surroundings. Based upon this, the Chilean national curriculum requires technology that can support experiential learning that places science in a real-life context.

### The Challenge

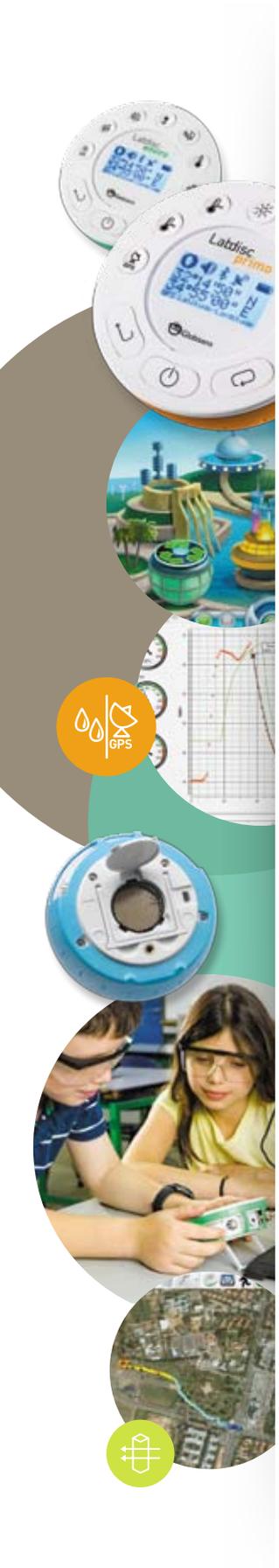
As part of raising the national bar in scientific understanding, 5th grade students are required to master reading charts and graphs, as well as manipulate data collectors. Unfortunately data logging devices and analysis software are often very complicated and awkward, making it difficult for teachers and students to meet these learning directives.

### The Labdisc Solution

The students of Reina de Suecia elementary school in the Maipú urban area of Santiago are motivated and excited to use the Labdisc, while teachers have found a solid channel to deliver inquiry-based learning approach and meet national standards.

The school has 100 years of rich educational history and has been honored for three consecutive years with the academic excellence award by the Chilean Ministry of Education. Approximately 860 students attend the school, almost half of whom have some kind of vulnerability.

Carla Lueiza, Science Educator Trainer worked with local teachers, Eduardo Chichual and Mabel Dueñas to explore with 6th grade students the following activities in biology, physics, and environmental science: Sweat production, the greenhouse effect, variation of light intensity, heart rate and environmental changes within the school. The teachers found the Labdisc made it possible for students to quickly accept complicated science hypothesis and apply them in a process of scientific discovery.



**Labdisc key benefits**


All the teachers involved described the following Labdisc qualities as crucial to the program's success:

**“Easy-to-manipulate hardware**

- The Labdisc device offers a more user-friendly way to approach science that can leverage children skills and physical dextral ability (large button size, easy manipulation).


**Satisfy national curriculum**

**directives** - The GlobiLab analysis software makes it very easy to read charts and graphs and perform analysis. Data results are immediate and approachable; and are more significant since they speak to the student's experience.



**Regenerating interest** - Applying experiments with a product like the Labdisc was a totally new and engaging experience, far



from the limitations of just text books and precarious laboratories.

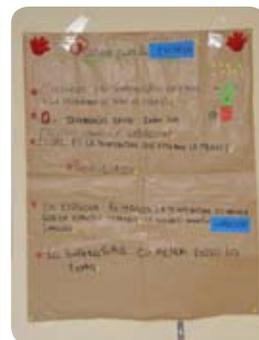
**Resource innovation** - Solving the problem of lack of resources with an affordable and highly sophisticated solution.

**Easy-to-transport** - Mobility is key, we don't have expensive school laboratories, we need a light-weight and easy to hold device that allows science to be applied anywhere.

**100% technological** - Whether using multiple wireless sensors simultaneously, applying GPS functionality or sending all data via Bluetooth – the Labdisc incorporating the latest in technologies into one device.”

**“Our experimentation with the Labdisc generated positive emotions in students because they discovered science through their own hands and minds. They loved the process so much that created their experiments and conclusion on a poster, now hanging on the lab wall.... With drawings of each stage, together with experiment results to help others understand what they had done.”**

The students created posters of their experiences with the Labdisc, demonstrating each experiment step and sharing their discoveries with their peers.


**About Globisens**

Founded on 15 years of global innovation, Globisens brings trusted industry knowledge and proven leadership in the development and production of science education tools. The launch of the Labdisc line has revolutionized the science and environmental education markets, with a 21st Century learning tool that integrates with the latest technologies and educational trends.