

## Fact sheet

<b>Name</b>	STEM <sup>1</sup> Education for Innovation – an initiative in Latin America
<b>Objectives:</b>	<ol style="list-style-type: none"> <li>1 Developing digital media for use in lessons that are available on digital platforms (Media Portal and CREA) with an open license (Open Educational Resources)</li> <li>2 Digital and analogue teacher training (Blended Learning) on: <ul style="list-style-type: none"> <li>• STEM (emphasis on science)</li> <li>• Sustainable development education</li> <li>• Climate change education</li> <li>• Digitalization</li> <li>• Health education (hygiene, nutrition)</li> </ul> </li> <li>3 Institutionalizing STEM education in regional curricula and in teacher certification and training</li> <li>4 Stronger collaboration by expanding regional teacher networks and the association of education faculties in Latin America</li> </ol>
<b>Target audiences:</b>	<p>The initiative addresses the following groups in Latin America:</p> <ul style="list-style-type: none"> <li>• Teachers and their students</li> <li>• Student teachers</li> <li>• STEM and education instructors at education institutions (schools, universities, technical colleges)</li> <li>• Education system stakeholders (ministries, local decisionmakers)</li> </ul>
<b>History</b>	<p>2011-2021 Siemens Stiftung establishes and expands the <i>Red STEM Latinoamérica</i> STEM network in Santiago de Chile (today: 60 institutions throughout Latin America).</p> <p>March 2020 Outbreak of the COVID-19 pandemic in Latin America, 160 million students affected by school closures (Source: UNECSO).</p> <p>June 2020 Siemens Stiftung begins working with local education authorities to share digital and analogue educational resources.</p> <p>August 2020 Siemens Stiftung establishes the education initiative along with local partners in multiple Latin America countries.</p> <p>December 2020 Siemens Caring Hands e.V. supports the initiative with a donation of 500,000.</p> <p>through December 2021 Siemens Stiftung coordinates and monitors project objectives.</p> <p>2022 and beyond The regional office of Siemens Stiftung in Chile encourages and coordinates the continuity and development of the initiative in order to ensure its long-term impact.</p>

<sup>1</sup> STEM – science, technology, engineering, mathematics

<b>Budget</b>	<p>Total of 680,000 euros; 500,000 euros from Siemens Caring Hands e.V. and 180,000 euros from Siemens Stiftung. The Partners and Siemens Stiftung provide additional monetary and in-kind contributions.</p>
<b>Locations</b>	<p>The initiative includes 14 project partners in seven countries so far:</p> <ul style="list-style-type: none"> <li>• 6 projects in Chile</li> <li>• 3 in Colombia</li> <li>• 1 in Ecuador</li> <li>• 1 in Argentina</li> <li>• 1 in Mexico</li> <li>• 1 in Peru</li> <li>• 1 in Brazil</li> </ul> <p>The projects are designed to appeal to all of South America. Project sponsors work with partner institutions in several countries, establishing interregional cooperation from the very beginning.</p>
<b>Impact</b>	<p>By the end of the initiative's development phase in December 2021, the results of the 14 pilot projects are supposed to include 250 new open education materials and around 100 STEM teacher training seminars. The online seminars can reach up to 20,000 teachers, which impacts 450,000 students in seven Latin American countries.</p> <p>In the longer term, millions of students will gain access to the free learning materials in Siemens Stiftung's trilingual Media Portal.</p> <p><i>CREA (Centro Recursos Educativos Abiertos)</i> Siemens Stiftung's education portal in Spanish <a href="https://experimento.lat.siemens-stiftung.org/recursoseducativos/">https://experimento.lat.siemens-stiftung.org/recursoseducativos/</a></p> <p><i>Siemens Stiftung Media Portal</i> With 4,300 education media in German, English, and Spanish <a href="https://medienportal.siemens-stiftung.org/de/home">https://medienportal.siemens-stiftung.org/de/home</a></p>
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