

<b>Title of case study</b>	<b>Planetary Skin</b>
<b>Name of organization(s)</b>	<b>Cisco Systems</b>
<b>Business sector</b>	Information Technology Services
<b>Region(s) relevant to case study</b>	<input checked="" type="checkbox"/> All regions <input type="checkbox"/> Africa and the Arab States <input type="checkbox"/> Asia and the Pacific <input type="checkbox"/> Caribbean and Central America <input type="checkbox"/> Europe <input type="checkbox"/> Least Developed Countries <input checked="" type="checkbox"/> North America <input type="checkbox"/> Polar regions <input type="checkbox"/> Small Island Developing States <input type="checkbox"/> South America
<b>Country(s) relevant to case study</b>	USA (Cisco Systems headquarters), All
<b>Adaptation sector(s) relevant to case study</b>	<input type="checkbox"/> Business <input type="checkbox"/> Education and training <input checked="" type="checkbox"/> Food security, agriculture, forestry and fisheries <input type="checkbox"/> Human health <input type="checkbox"/> Oceans and coastal areas <input checked="" type="checkbox"/> Science, assessment, monitoring and early warning <input checked="" type="checkbox"/> Terrestrial ecosystems <input type="checkbox"/> Tourism <input type="checkbox"/> Transport, infrastructure and human settlements <input checked="" type="checkbox"/> Water resources <input type="checkbox"/> Other (please specify):
<b>Adaptation activity</b>	<p>The Climate Change practice of the Cisco Systems Strategy and Innovation Group (IBSG) is researching an initiative to reduce emissions from deforestation in developing countries with co-benefits for climate change adaptation and the conservation of forest ecosystems.</p> <p>This effort is part of a wider global sensing and monitoring R&amp;D collaborative effort with NASA and other partners to co-develop a “Planetary Skin” that goes beyond carbon sensing in rural and urban environments into critical sectors including water, food productivity and risk management.</p>

	<p>Cisco System’s Planetary Skin Institute (PSI) has identified two powerful trends re-shaping the world. The first is resource scarcity, the result of demand growth (water, energy, food, land, etc.) driven by growing populations with rising incomes and increasing constraints on the supply of these resources given environmental degradation, land use change, inherent variability of weather conditions and resource productivity, and the threat of climate change.</p> <p>The second trend is information abundance, driven by a massive increase in data and information processing capabilities, driven by new sensor networks and a host of emerging information and communication technologies.</p> <p>The PSI aims to address the challenge posed by the first trend with the opportunity presented by the second. In short, PSI aims to harness the power of information technology and networks to help decision-makers manage scarce resources and risks more effectively in a changing world.</p> <p>PSI is currently working with select corporate, government and academic/ think tank partners in the US, EU, India and Brazil to build working prototypes of resource and risk management decision support tools that have the potential to increase food, water, and energy security and protect ecosystems such as tropical forests.</p> <p>In all of its activities, PSI focuses on decision support, or improving resource management and risk management decision-making through the effective use of information. We target decision-makers, map and prioritize decision flows, identify blockages and barriers, then experiment with different approaches to generate useful data and integrate them into timely and actionable information.</p>
<p><b>Cost-benefit</b></p>	<p>In March of 2009, Cisco and NASA agreed a multi-year R&amp;D public private partnership to co-develop the Planetary Skin. From their early work together on tropical forestry, both organizations soon realized that they faced a powerful opportunity to address not only scientific and technical challenges, but also institutional and cultural challenges by pooling their R&amp;D capabilities and assets in a partnership based on joint innovation.</p> <p>They transformed their partnership into an independent, non-profit organization, the PSI, that could cut across institutional, disciplinary, and national boundaries and create a space for flexible pooling of assets and ideas between stakeholder networks. This unique space for R&amp;D makes Cisco Systems a leader among its peers in</p>

	the development of climate change adaptation technologies.
<b>Case study source(s)</b>	<a href="#">Planetary Skin Institute website</a>
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