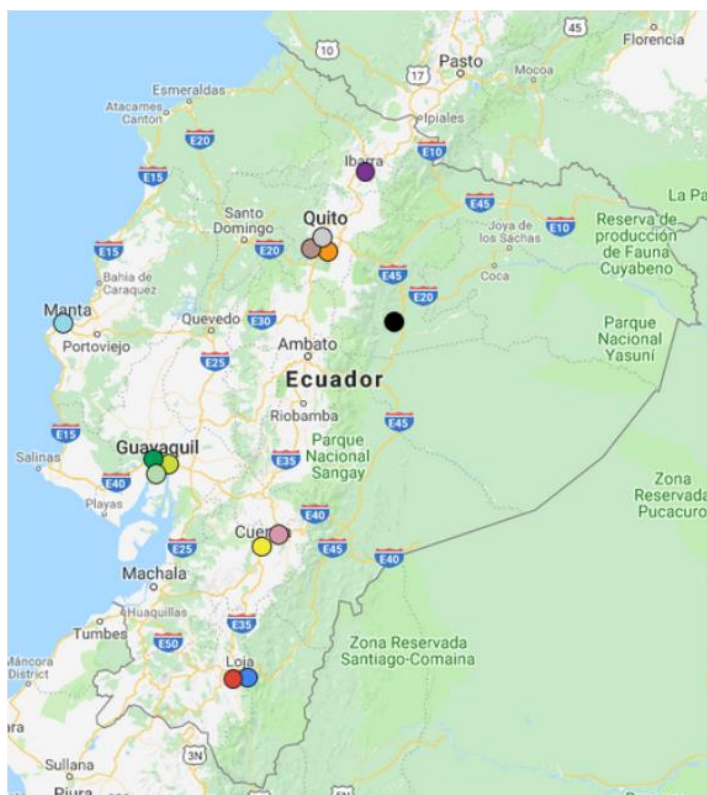


Overview interventions in Ecuador



Legend

- Universidad de Cuenca ●
- Escuela Superior Politécnica del Litoral ●
- Universidad Nacional de Loja ●
- Universidad Técnica Particular de Loja ●
- Universidad San Francisco de Quito ●
- Universidad Técnica del Norte ●
- Universidad Politécnica Nacional ●
- Universidad de Guayaquil ●
- Universidad Andina Simón Bolívar ●
- Universidad Regional Amazónica IKIAM ●
- Universidad Laica Eloy Alfaro de Manabí ●
- Universidad Nacional de Educación ●
- Universidad casa Grande ●

| Projects 2003-2019 | | |
|--------------------|-------------------|-----------|
| Type | Budget (€) | Number |
| Total | 18 295 513 | 55 |
| IUC | 10 763 937 | 2 |
| Networks | 1 795 000 | 1 |
| TEAM | 3 011 502 | 12 |
| SI | 1 038 033 | 18 |
| RIP | 430 594 | 5 |
| Crosscutting/JOINT | 1 056 464 | 16 |
| ICT Infrastructure | 199 983 | 1 |

| Ongoing projects in 2019 | | |
|--------------------------|--------------------|-----------|
| Type | Budget in 2019 (€) | Number |
| Total | 979 070 | 15 |
| Networks | 250 000 | 1 |
| TEAM | 421 074 | 6 |
| SI | 188 531 | 6 |
| JOINT | 119 465 | 2 |

| Scholarships 2003-2018 | | |
|------------------------|------------------|------------|
| Type | Budget (€) | Number |
| Total | 2 188 989 | 496 |
| Ph.D. | | |
| Subtotal | 380 152 | 3 |
| ICP Ph.D. | 65 928 | 1 |
| VLADOC | 314 224 | 2 |
| Short term | | |
| Subtotal | 594 040 | 451 |
| ITP | 35 428 | 5 |
| KOI | 90 243 | 43 |
| REI* | 399 937 | 393 |
| Other scholarships | 68 432 | 10 |
| Study | | |
| Subtotal | 1 214 797 | 42 |
| ICP | 1 214 797 | 42 |

*Travel grants 2018 has not yet been finalised.

List of projects 2003-2019

| Type | Runtime | Title | Flemish promoter | Local promoter | Local institution | Total budget (€) |
|----------|-----------|---|------------------------|-------------------------------|--|------------------|
| IUC | 2004-2010 | Institutional University Cooperation with Escuela Superior Politécnica del Litoral (phase 2 and phase-out) | M. Vincx (UG) | S. Flores | Escuela Superior Politécnica del Litoral | 3.172.500 |
| IUC | 2005-2018 | Institutional University Cooperation with Universidad de Cuenca (phase 1, 2 and phase-out) | G. Wyseure (KUL) | F. Leon | Universidad de Cuenca | 6.846.437 |
| Networks | 2013-2022 | Network Biodiversity (phase 1 and 2) | P. Goethals (UG) | P. Herrera J.M.C. Cevallos | Escuela Superior Politécnica del Litoral | 2.500.000 |
| TEAM | 2003-2008 | Towards integrated catchment management in tropical mountain areas: the problem of sediment management. | G. Govers (KUL) | F. Cisneros | Universidad de Cuenca | 316.736 |
| TEAM | 2005-2009 | Contribution of afforestation and reforestation to the enhancement of physical and socio-economic land performance in the Southern Andes of Ecuador: assessment, modelling and planning support | J. Van Orshoven (KUL) | F. Cisneros | Universidad de Cuenca | 298.305 |
| TEAM | 2008-2014 | Improvement of process performance of small and medium food enterprises in Ecuador | T. Niewold (KUL) | N. Espín | Escuela Politécnica Nacional | 294.915 |
| TEAM | 2010-2014 | Improving and strengthening quality for family medicine training in Ecuador, using capacity building and distance learning | P. Van Royen (UA) | J. Valdivieso | Universidad Técnica Particular de Loja | 306.669 |
| TEAM | 2015-2018 | Management of water quality and quantity in lakes in Northern Ecuador using a catchment-based approach | K. Muylaert (KUL) | E. Velarde | Universidad Técnica del Norte | 299.728 |
| TEAM | 2015-2018 | Thermo-chemical conversion of lignocellulosic Ecuadorian agriculture residues into high value biochars, bio-oils and power generation | K. Van Geem (UG) | D.A. Streitwieser | Universidad San Francisco de Quito | 298.205 |
| TEAM | 2016-2020 | "Buen vivir" through integrated health care: optimizing intercultural collaboration in rural areas in Ecuador | K. Hendrickx (UA) | V. Dávalos | Universidad Técnica Particular de Loja | 260.438 |
| TEAM | 2017-2020 | Food standards and sustainability in the cocoa supply chain in Ecuador | E. Smolders (KUL) | E. Chavez | Escuela Superior Politécnica del Litoral | 299.406 |
| TEAM | 2017-2020 | Improving Ecuadorian child nutrition by using mango by-products as potential sources of bioactive compounds | J. Van Camp (UG) | J. Ruales | Escuela Politécnica Nacional | 299.999 |
| TEAM | 2018-2021 | Enhancing the social value of the circular economy in Latin America | M. Craps (KUL) | F. Soliz | Universidad Andina Simón Bolívar | 271.692 |
| TEAM | 2018-2021 | A combined omics and bioinformatics research approach to improve spontaneous Ecuadorian cocoa bean fermentation processes | S. Weckx (VUB) | J. Ruales | Escuela Politécnica Nacional | 279.064 |
| TEAM | 2019-2022 | Innovative governance systems for built cultural heritage, based on traditional Andean organisational principles in Ecuador | K. Van Balen (KUL) | F. Cardoso | Universidad de Cuenca | 278.731 |
| SI | 2005-2006 | Valorisation of PhD results and structuring the research area in páramo hydrology | J. Deckers (KUL) | B. Debriève | Universidad de Cuenca | 5.547 |
| SI | 2007-2008 | HPV Genotyping in cervical samples from women attending Colposcopy service at a Reference Hospital in Guayaquil | E. Van Driessche (VUB) | T. Fernández | Universidad de Guayaquil | 6.993 |

List of projects 2003-2019

| Type | Runtime | Title | Flemish promoter | Local promoter | Local institution | Total budget (€) |
|------|-----------|--|------------------------------|-----------------|--|------------------|
| SI | 2012-2014 | Study of pathogen-pathogen interactions established during wilt disease development in Babaco (<i>Vasconcellea helbornii</i>) | K. Marchal (KUL) | R.C. Valdivieso | Universidad Nacional de Loja | 66.481 |
| SI | 2012-2014 | Facilitation and promotion of the uptake of the ForAndesT forest planning support system in forest extension policy and practice in the southern Andes of Ecuador | J. Van Orshoven (KUL) | P.V. Peralta | Universidad de Cuenca | 69.754 |
| SI | 2012-2014 | Optimizing Educational Research in Higher Education (OERHE) | M. Valcke (UG) | C. Montufar | Universidad San Francisco de Quito | 69.202 |
| SI | 2013-2015 | Sustainable management of lakes in Northern Ecuador under growing economic activities and a changing climate | K. Muylaert (KUL) | G.J.P. Garcés | Universidad Técnica del Norte | 74.821 |
| SI | 2013-2015 | To strengthen and build on medical curriculum reform at the UTPL (EI), with emphasis on distance education and modern concepts of learning | K. Hendrickx (UA) | J. Bobokova | Universidad Técnica Particular de Loja | 74.580 |
| SI | 2013-2015 | Quality management in teacher education with focus on science education | A. Vyt (Arteveldehogeschool) | M.M. Quezada | Universidad Técnica Particular de Loja | 56.734 |
| SI | 2014-2016 | Pilot study on DNA-based biomonitoring in the Amazon River basin | C. Van der Heyden (HG) | M.A.G. Oñato | Universidad Técnica del Norte | 74.844 |
| SI | 2017-2018 | "Buen vivir" by qualitative early childhood education and care | C. Detavernier (AH) | L. Pérez | Universidad Casa Grande | 75.000 |
| SI | 2017-2018 | A course for innovative teaching and research practice for teacher trainers in Ecuador | W. Hustinx (PXL) | R. Nuñez | Universidad Técnica del Norte | 74.988 |
| SI | 2018-2019 | Biomonitoring of aquatic environments in the Amazon using environmental DNA | C. Van der Heyden (HG) | J. Celi | Universidad Regional Amazónica IKIAM | 69.959 |
| SI | 2018-2019 | Improving research skills of healthcare professors to enhance evidence based practice in Northern Ecuador | A. Spooen (PXL) | S.G. Alarcon | Universidad Técnica del Norte | 69.980 |
| SI | 2018-2019 | COFOREC Consolidating a long-term forest monitoring network in a human modified landscape in Northern Ecuador. | H. Verbeeck (UG) | S. Baez | Escuela Politécnica Nacional | 69.542 |
| SI | 2018-2019 | Accessible orthopaedics in Ecuador | V. Creylman (TMK) | Y.B. Sánchez | Universidad Laica Eloy Alfaro de Manabí | 69.972 |
| SI | 2019-2020 | Longitudinal monitoring of nutritional health in Kichwa mothers and breastfed infants through saliva sequencing applications | W. Vanden Berghe (UA) | A.O. Manzano | Escuela Superior Politécnica del Litoral | 69.938 |
| SI | 2019-2020 | ProPED: Professionalisation of the ECEC centers by pedagogical guidance | S. Vastmans (AH) | L. Pérez | Universidad Casa Grande | 69.946 |
| RIP | 2010-2014 | Personalised Teaching and Learning Support Systems for the Development of Cognitive and Metacognitive Skills | M. Valcke (UG) | X. Ochoa | Escuela Superior Politécnica del Litoral | 62.636 |
| RIP | 2010-2013 | Applied research for non-metallic materials from Ecuadorian Coastal Region: Academic development with innovative applications for zeolites- and clays-based products | J. Elsen (KUL) | C. Paredes | Escuela Superior Politécnica del Litoral | 73.183 |

List of projects 2003-2019

| Type | Runtime | Title | Flemish promoter | Local promoter | Local institution | Total budget (€) |
|--------------|-----------|--|--------------------------|----------------|--|------------------|
| RIP | 2012-2015 | Development of alkali activated cements using Ecuadorian natural zeolites and industrial solid wastes | J. Elsen (KUL) | C. Paredes | Escuela Superior Politécnica del Litoral | 99.626 |
| RIP | 2014-2018 | Non-destructive imaging and GC-MS based metabolomics for diagnosis of black sigatoka | S. Gautama (UG) | D.O. Donoso | Escuela Superior Politécnica del Litoral | 95.886 |
| RIP | 2014-2017 | Folate biofortification of Banana Musa spp | D. Van Der Straeten (UG) | O. Navarrete | Escuela Superior Politécnica del Litoral | 99.263 |
| Crosscutting | 2005-2007 | Design and development of supportive learning materials to develop statistics and methodological knowledge of students of applied biological sciences (North South South Cooperation) | M. Vincx (UG) | E. Peláez | Escuela Superior Politécnica del Litoral | 19.896 |
| Crosscutting | 2007-2008 | Infrastructure for universal access to information, computational and teamwork services | M. Valcke (UG) | E. Peláez | Escuela Superior Politécnica del Litoral | 101.000 |
| Crosscutting | 2007-2008 | Improvement of the information and communication infrastructure of Ucuena to facilitate, professionalise and extend ICT services in administration, teaching, research and outreach activities | G. Wyseure (KUL) | R. Padilla | Universidad de Cuenca | 225.000 |
| Crosscutting | 2009-2011 | Development of integrated projects and internships as cornerstones in curriculum development aiming at Joint MSc degrees (North South South Cooperation) | G. Wyseure (KUL) | P. Cornejo | Escuela Superior Politécnica del Litoral and Universidad de Cuenca | 30.000 |
| Crosscutting | 2011-2013 | Statistical Research Planning (North South South Cooperation) | L. Duchateau (UG) | V. Tobar | Universidad de Cuenca | 15.767 |
| Crosscutting | 2014-2015 | Statistical research planning in action (North South South Cooperation) | L. Duchateau (UG) | V. Tobar | Universidad de Cuenca | 12.650 |
| Crosscutting | 2014-2016 | Agro-ecosystems mapping by low cost photogrammetry, based on Unmanned Aerial Vehicles (UAV) (North South South Cooperation) | E. Schrevels (KUL) | V. Iniguez | Universidad de Cuenca | 19.643 |
| Crosscutting | 2014-2015 | Tools for research assessment and education in the field of water resource management in Vietnam and Ecuador (North South South Cooperation) | M. Valcke (UG) | F. Cisneros | Universidad de Cuenca | 38.943 |
| Crosscutting | 2015-2016 | Platform for Ecuadorian Sustainable Academic Development (PESAD) (National Crosscutting) | M. Simons (KUL) | R.P. Cordero | Universidad Nacional de Educación | 149.749 |
| Crosscutting | 2015-2016 | Latin-American axe on preventive conservation of built heritage | K. Van Balen (KUL) | F. Cardoso | Universidad de Cuenca | 37.500 |
| Crosscutting | 2015-2016 | Development of E-Learning tools to support education and training related to monitoring and management of water resources | P. Goethals (UG) | L. Dominguez | Escuela Superior Politécnica del Litoral | 24.875 |
| Crosscutting | 2015-2016 | Developing a common quality control methodology and criteria evaluating the toxicological risk in traditionally used medicinal plants | Y. Vander Heyden (VUB) | F. Leon | Universidad de Cuenca | 18.749 |
| JOINT | 2017-2021 | Asociación Ecuatoriana para el Fomento de la Investigación Educativa (AEFIE) | M. Simons (KUL) | P.C.M. Suarez | Universidad Nacional de Educación | 375.000 |

| List of projects 2003-2019 | | | | | | |
|----------------------------|-----------|--|------------------|------------------|--|------------------|
| Type | Runtime | Title | Flemish promoter | Local promoter | Local institution | Total budget (€) |
| JOINT | 2018-2020 | Statistics for development | Z. Shkedy (UH) | H.C. Validiviezo | Escuela Superior Politécnica del Litoral | 119.869 |
| ICT Infrastructure | 2014-2015 | A private cloud creation for storing University of Cuenca end-users' information | G. Wyseure (UG) | R. Padilla | Universidad de Cuenca | 199.983 |

| List of ICP Ph.D. scholarships 2003-2019 | | | | | | |
|--|-----------|---|--------------------|----------------|--|------------------|
| Type | Runtime | Title | Flemish promoter | Local promoter | Local institution | Total budget (€) |
| ICP Ph.D. | 2010-2012 | The relationship between the biodiversity present in the Guasaganda region of Ecuador, and the dietary diversity of local diets | P. Kolsteren (KUL) | R. Espinel | Escuela Superior Politécnica del Litoral | 65.928 |

| List of VLADOC Ph.D. scholarships 2003-2019 | | | | | | |
|---|-----------|--|--------------------------|----------------|-------------------|------------------|
| Type | Runtime | Title | Flemish promoter | Local promoter | Local institution | Total budget (€) |
| VLADOC | 2008-2013 | A community intervention in school-going adolescents in Ecuador: a cluster randomized controlled trial | P. Kolsteren (UG) | n/a | N/a | 148.577 |
| VLADOC | 2010-2014 | Payments for ecosystem services and compensation mechanisms for environmental degradation to finance conservation of Podocarpus National Park in Ecuador | G. Van Huylenbroeck (UG) | n/a | n/a | 165.647 |

Abbreviations (type): IUC=Institutional University Cooperation; SI=South Initiatives; RIP=Research Initiatives Programme; VLADOC=Flemish doctoral scholarships.

Abbreviations (Flemish institutions): KUL= Katholieke Universiteit Leuven; UG=Ghent University; UA=University of Antwerp; UH=University of Hasselt; VUB=Vrije Universiteit Brussel; AH=Artevelde University College; PXL=PXL University College.