Título del proyecto: Characterizing spatial-temporal evolution of atmospheric composition in the Southern Cone with CHIMERE

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Otros/as investigadores/as participantes:

Institución	Apellido	Nombre
LMD (France)	*Menut*	*L.*
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Instituto Gulich (CONAE)	*Burgos*	*M.*
Instituto Gulich (CONAE)	*Bianco*	*A.*
CIMA-IFAECI	*Cosentino*	*N.J.*
DCAO	*Ulke*	*G.*
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IFAECI	*Orte*	*F.*
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Resumen: The CHIMERE model is a community model labeled by INSU/CNRS. Its development is coordinated by L. Menut (LMD) with contributions of LISA (CNRS/UPEC) and INERIS. This numerical chemistry-transport model aims at modelling atmospheric composition from urban to hemispheric scale, for purposes of research and operational air quality forecast. This tool is adapted to study the evolution of the atmospheric composition in South-America and various processes specific to that region, in collaboration with research groups in Chile (Univ. de Chile) and Argentina (IRL IFAECI, CONAE). While CHIMERE is already used by these groups for research, the IRN framework would help further development of these collaborations with several scientific and preoperational goals such as applying CHIMERE with newly developed national emission inventories for Argentina and Chile, design an operational forecast framework capable of representing wildfire and dust plumes, train students and researchers on the latest version of CHIMERE allowing for online simulations and thus permit studies on the feedback between meteorology and pollution. The project would create new links between LMD and IFAECI, strengthen the impact of IFAECI as a research hub on atmospheric composition and spread the use of CHIMERE in the region through a workshop and a formation aimed for researchers from South American countries.