



STRATEGIC PARTNERSHIP TO MAKE WATER, BIOMASS & ENERGY RISK INTELLIGENCE *ACTIONABLE* THROUGH RIPPLES™ PLATFORM

- New strategic partnership between **SpaceTime Labs** and **VanderSat** aims to combine their unique technology capabilities and skillsets to make water, biomass and energy operational risk management and risk transfer innovations *actionable*.
- The RIPPLES™ platform partnership will first focus its joint innovation development efforts and go-to-market activities in Brazil and Latin America, before replicating and scaling globally.
- As a group of central banks representing 45% of global GDP (NGFS) recently pointed out, hydro-meteorological related physical impacts are not just risks for the future, they are already impacting the economy and financial system today and these risks will only increase in the future.
- We are already collaborating with global market leaders in their respective segments and we have an active innovation pipeline in our Sao Paulo-based RIPPLES™ Joint Innovation Lab.

São Paulo and Amsterdam, May 31st, 2019

The ambitious partnership to co-develop the RIPPLES™ platform between **SpaceTime Labs** and **VanderSat** was announced today to make water, biomass and energy risk intelligence actionable.



SpaceTime Labs (www.spacetimelabs.ai) is a leading Brazilian artificial intelligence company founded in 2014 that develops and operates automated platforms for planning, optimization and risk management of resource-intensive sectors exposed to climate and water risk.



VanderSat (www.vandersat.com) is a leading Dutch company founded in 2015 that uses patented technologies to produce unique global daily water intelligence microwave satellite datasets at high resolution working in resource-intensive sectors exposed to water risk.

Both companies currently serve leading corporations in their respective segments independently and given the very significant synergies and complementarities in technology innovation, science & technology capabilities and commercial operations, we expect that by combining these we will be better serve our customers in solving their complex challenges in both operational risk management and in risk transfer.

Our RIPPLES™ partnership combines best in class earth system science, remote sensing technologies and globally unique high resolution daily datasets from **VanderSat** with best in class machine learning, computer vision and business analytics technologies from **SpaceTime Labs**, applied to solve complex operational risk management and risk transfer problems globally in biomass, water and energy industries that increasingly will define key aspects of the world economy as we know it.

As a group of central banks representing 45% of global GDP (NGFS) recently pointed out, climate related physical impacts are not just risks for the future, they are already impacting the economy and financial system today around the world. Overall, worldwide economic costs from weather extremes have exceeded the 30-year average of USD 140 billion per annum in 7 of the last 10 years. Since the 1980s, the number of extreme weather events has more than tripled. In this context, it is estimated that losses will be large and range from USD 1 trillion to USD 4 trillion when considering the energy sector alone or up to USD 20 trillion when looking at the economy more broadly.

In this context, it is well known that leading corporations of the real economy and of the financial system around the world are in general ill-equipped in terms of robust and granular science-based and actionable risk intelligence decision tools and capabilities to navigate this new risk normal. This, in turn sets the scene of the rationale for the strategic partnership between **SpaceTime Labs** and **VanderSat** through the RIPPLES™ platform that the partnership will co-develop to make biomass, energy and water risk intelligence actionable.

The partnership is already serving leading corporations with operational risk management and risk transfer services and will now deepen and accelerate their integration with the help of a RIPPLES™ Joint Innovation Lab facility in Brazil with the aim of co-developing globally unique risk capabilities, products and services in partnership with leading global corporations operating in Brazil, before replicating and scaling globally. Current key operationalization activities involve agriculture productivity optimization, agriculture drought index insurance, precision irrigation for forestry and agriculture, and hydropower risk management applications.

QUOTES

"Given the ever increasing frequency and impact of weather extremes impacting biomass, energy, water related industries worldwide, we will partner with VanderSat to co-develop the RIPPLES™ platform to deliver next generation risk intelligence capabilities that are actionable and fit for purpose for our corporate partners to navigate an increasingly complex and volatile future", said Juan Carlos Castilla-Rubio, Founder and Chairman of SpaceTime Labs.

"We have been collecting daily information on soil moisture and temperature from different satellites for many years. As a result, we now have an archive of data that goes back for 17 years. By combining these satellite derived data with other data sources on the RIPPLES™ platform we will be able to build game changing applications with several use cases in multiple sectors (e.g. agricultural, (re-)insurance, energy and water) making huge positive impact to the environment" said dr. Richard de Jeu, Founder and CTO of VanderSat.

SpaceTime Labs Contact: dn@spacetimelabs.ai

VanderSat Media Contact: rmica@vandersat.com