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# The groundings of the *Terra* project

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Since L Kolisko's first experimental work in the 1930s, numerous studies have highlighted the positive impact of dynamized high dilutions (DHDs) on plant vitality and quality of agricultural soil. More recently, bio-resilience and agroecological cultivation concepts have been developed to propose alternative approaches to conventional agronomic methods. The scope of the Terra project is focused on further research to apply DHDs to agro-economics, the environment in general, and the fauna and flora. The scientific grounding lies in quantifying signals emitted by such dilutions by well-defined physicochemical methods, such as NMR, spectroscopy, and recently, Nanoparticle Tracking Analysis [1]. These fundamental features make their effects on bio-resilience processes plausible and lead to sustainable productivity. The quantification of the interface between diluted/potentized compounds, its emitting signals, and the rich context of biology will be focused on to develop and implement methods and products that will reduce the harmful impact of pesticides, improve and catalyze the results of fertilization, reduce the overall consumption of pure water in agroeconomics and thereby also reduce the carbon footprint in this vital sector of the world´s overall economy and society. Experimental models and methodological tools have been a helpful resource for starting those studies. *In vivo* models already validated in homeopathy will be used to study the biological activity of HDHs. A proof-of-principle (POP) study is being performed with *Artemia salina* to evaluate the effects of serial dilutions of *Silicea terra*. In connection with the work of Rolland Conte et al. presented in the Theory of High Dilutions [2], the FMRC provides statistical and methodological tools for interpreting physicochemical and biological data. A network of scientists working in the field of DHDs applied to biological (aquaculture, agronomy) and physicochemical systems has been set up to carry out this research program.

**Keywords:** High dilutions, bio-resilience, Agro-economics, *Silicea terra*

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