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Analogue research from Lunares base

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Sending humans to Moon and Mars is definitely one of the biggest challenge for humanity of XXI century. It will bring smart solutions to all climate change problems, which actually destroy biodiversity on the only planet we live. Failure is not an option since it's not only a matter of money, but a matter of life. This delicate, unwanted for engineers parameter, rapidly increases the price and quality of human spaceflight studies. But such work gives the largest return of investment: new science, new technologies and new life styles for everyone including not only humans but all living creatures. Among several variants of testing platforms for human spaceflight R&Ds, analog simulations seem to be more and more efficient in releasing advanced TLR projects. In this talk authors present results from lunar and martian analog missions organized in the Lunares habitat in Poland. A series of technological, operational, medical, biological, geological, ecological and human factors experiments toward the goals of the future manned space missions were tested. The results from this missions provide recommendations for future manned expeditions to increase the quality of simulation. Additionally we put focus on optimisation of procedures and scheduling methods as well as science return based on improved resource allocation and crew habitation.