

A REVIEW OF THE LSIC ISRU ACTIVITIES OVER THE PAST YEAR AND FUTURE INITIATIVES

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The Lunar Surface Innovation Consortium ISRU Focus Group is charged with enabling the community to better develop technology for a sustained lunar presence. In pursuit of that goal, the ISRU Focus Group has been working with the community primary in four areas: to further technology development for O₂ and metal production from regolith, on the prospecting for or evaluation of water ice resources in PSRs, to develop a value networking capability for enabling a more efficient ISRU developments by industry, and finally to emphasize a system engineering approach to technology development that includes the ability to maintain and repair technology deployed to the lunar surface. Three related projects include hosting the ‘Regolith to Rebar’ workshop and follow on breakout session at the Spring Meeting, developing a Value Network capability within LSIC as a whole, and conducting a system integration study to identify system-level gaps in one technology for the extraction of O₂ from regolith. We will provide a brief overview of these efforts and other LSIC ISRU focus group activities including the LSIC Spring meeting, and discuss possible future initiatives.