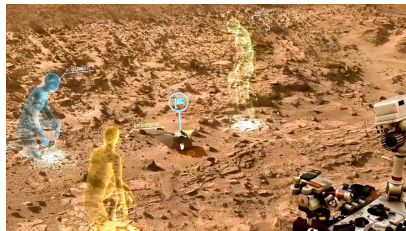
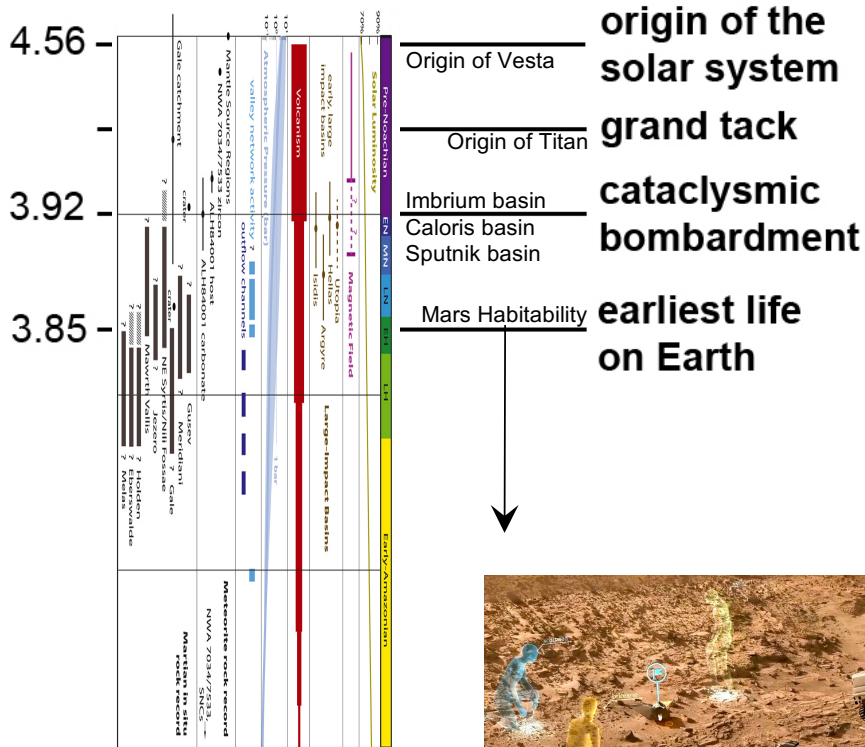




Geochronology as a Framework for Planetary History through 2050

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- Invest this decade in *in situ* instruments (including sample selection and handling – can we choose using VR?) to TRL 6; put them on flight missions in the 2020's and 2030's to relevant destinations where *in situ* precision can provide meaningful constraints on geologic history.
- Invest now in technologies for 2030's sample return; invest next decade for cold sample returns. Make a geochronology sample a standard goal of sample collection.
- Engage in human-aided sample return in the 2030's-40's; develop a benchtop capability for human missions (e.g. GeoLab)
- Sustained investment in terrestrial laboratory capabilities and advancements and training of future, diverse generations of research analysts

