

PTAL PRESENTS: lunch break at the office

WHY SHOULD EARTH
BE THE ONLY PLANET
SUPPORTING LIFE?



HMM, BUT
WHERE ELSE?

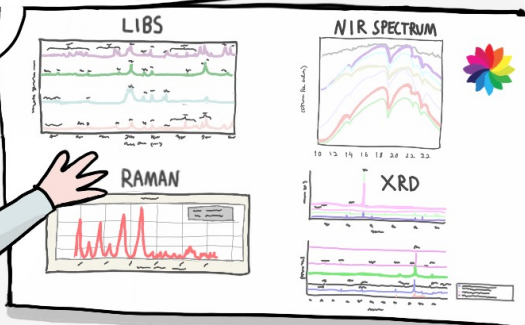
OFJ

MARS?

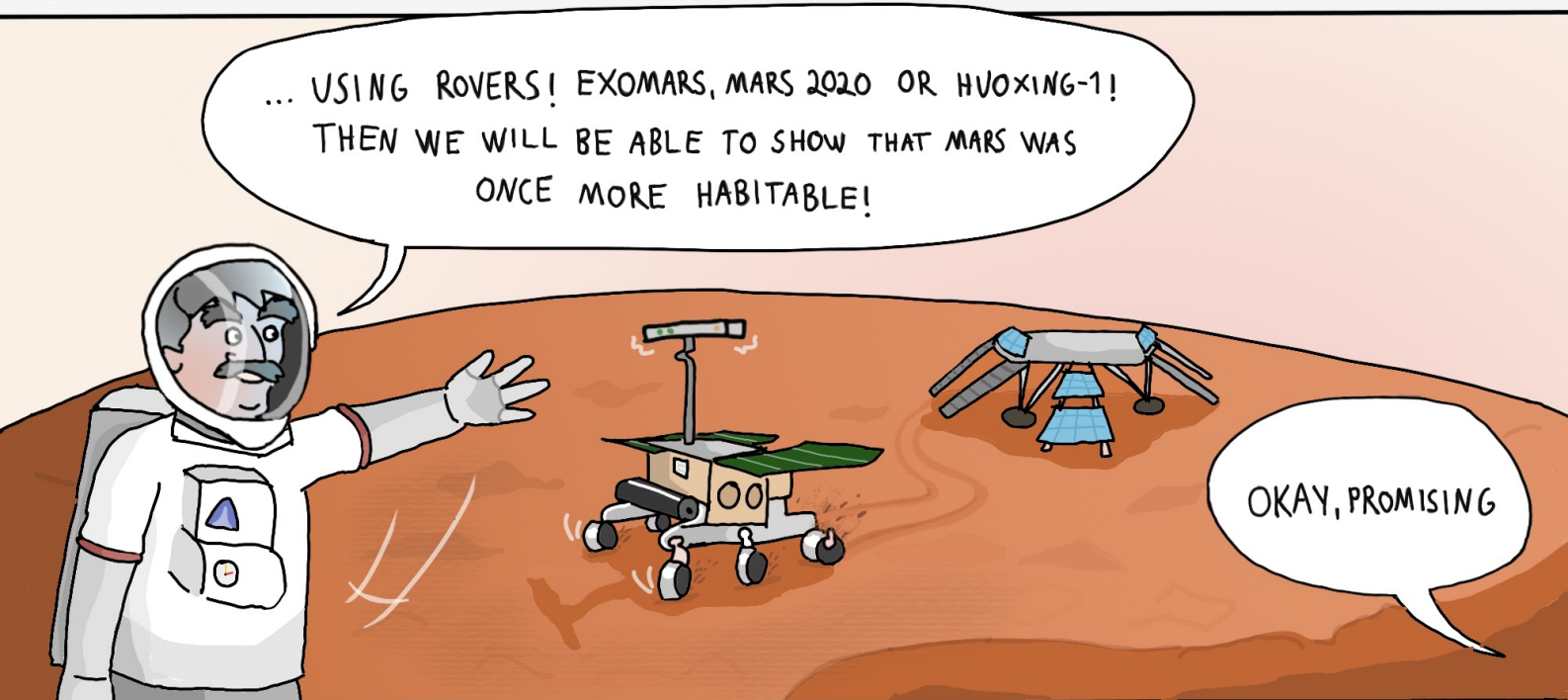
ARE YOU SURE
YOU KNOW MARS
WELL ENOUGH TO
BE ABLE TO
RECOGNIZE LIFE?

WE HAVE STUDIED MINERALS
AND ROCKS ON MARS FOR
DECADES WITH SATELLITES. THE
ROCKS HOLD ALL CLUES

WE ALSO HAVE A GREAT
MULTI-INSTRUMENT SPECTRAL
DATABASE, THE PLANETARY TERRESTRIAL
ANALOGUES LIBRARY: **PTAL**



SOME SUGGEST A
KIND OF VERMICULITE
CLAY TELLS US THERE
WAS ONCE WATER ON MARS.
WITH PTAL WE HAVE
ALL THE TERRESTRIAL
ANALOGUES WE NEED!



AND X-RAY
DIFFRACTION WILL
REVEAL IT ALL



YOU KNOW THAT XRD WAS CENTRAL TO
UNDERSTANDING DNA. UNFORTUATLY IT IS
NOT PLANNED TO HAVE XRD ON NEAR FUTURE
MARS ROVERS, BUT BY USING PTAL WE CAN
COMPARE EACH SPECTRAL OBSERVATION WITH
NIR, RAMAN AND LIBS TO THE XRD PATTERN
OF THE SAME ROCK TYPE. IT IS ALMOST
LIKE STUDYING LIFE ON MARS IN A LABORATORY
JUST BY USING LIGHT AND SIMPLY OUR EYES.



YOU STILL BELIEVE I
JUST ESCAPED HOLLYWOOD,
DON'T YOU?



Planetary Terrestrial Analogues Library

A multi-instrument spectral database
using XRD, NIR, RAMAN, LIBS

Visit us: www.ptal.eu



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