



# Masten

## NSRC Press Conference Opening Mars STMD/JPL/Masten

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# Story about Impact of Next Generation Suborbital Research

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- Mars 2020 selected JPL Terrain Relative Navigation technology flown with Masten
- TRN opens up more of Mars for landing sites
- Collaboration from:
  - NASA Space Technology Mission Directorate, Flight Opportunities Program
  - Jet Propulsion Laboratory
  - Masten Space Systems

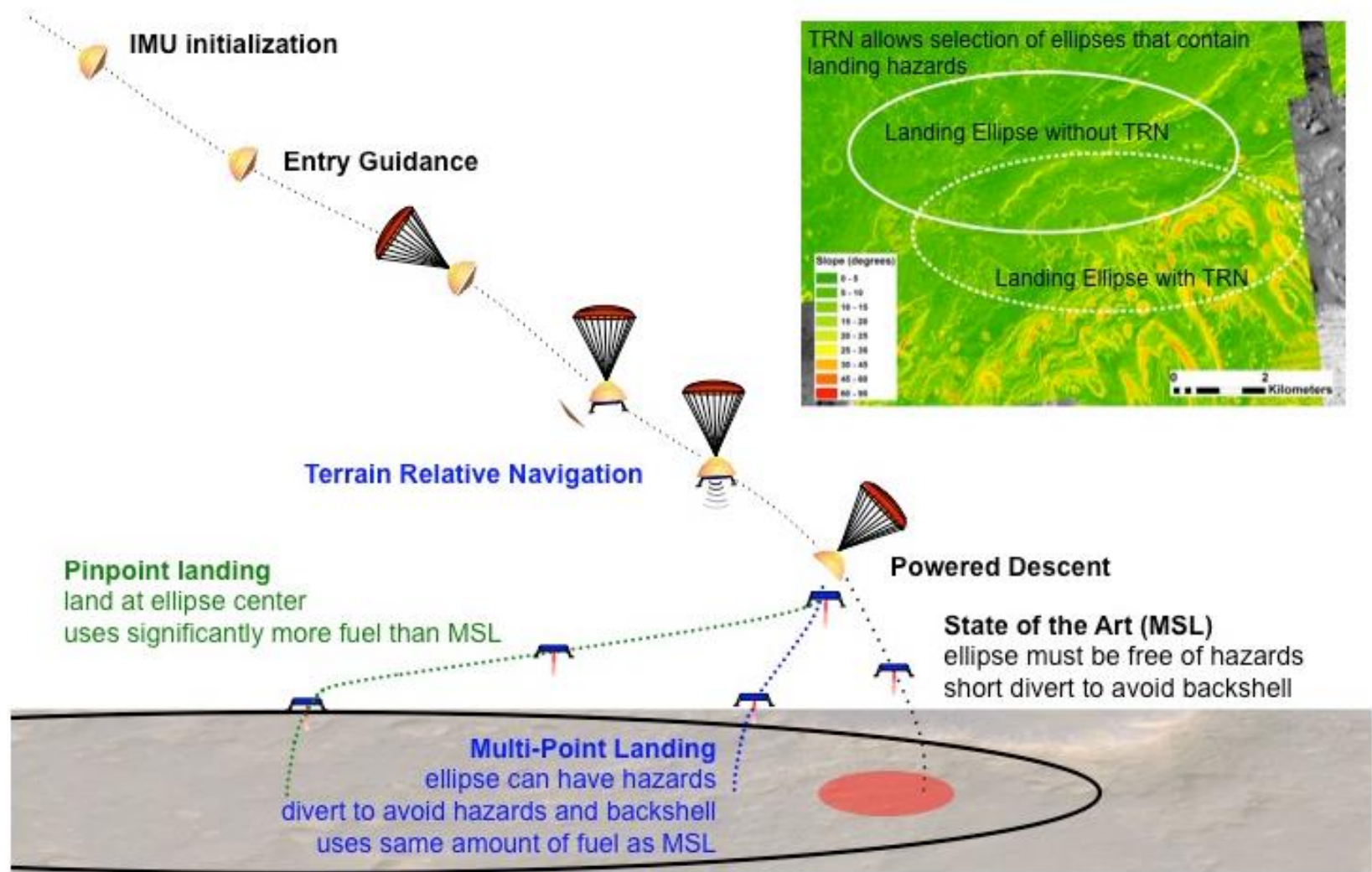


Figure 1. Next Generation Mars EDL capabilities, including multi-point and pin-point landing (Image Source Ref. 1).



**Figure 2.** ADAPT installed on the Xombie VTVL rocket vehicle, on the ground (left) and in flight (right, image credit NASA Photo / Tom Tschida).

# Follow-up and Source materials

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- NSRC presentation – Steve Jurczyk, STMD
- ADAPT Flight campaign press release  
<http://www.jpl.nasa.gov/news/news.php?feature=4514>
- AIAA Paper, 2015
  - “Flight testing of terrain-relative navigation and large-divert guidance on a VTVL rocket”
- Nikolas Trawny, JPL (Nikolas.Trawny@jpl.nasa.gov)
- Sean Mahoney, Masten (smahoney@masten.aero)