MARS MARTIAN ARCHITECTURAL GUIDE

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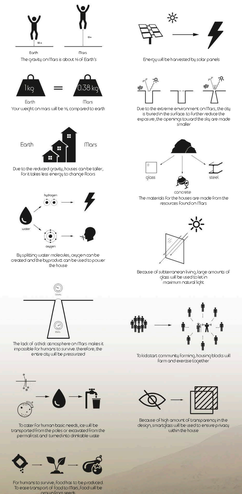
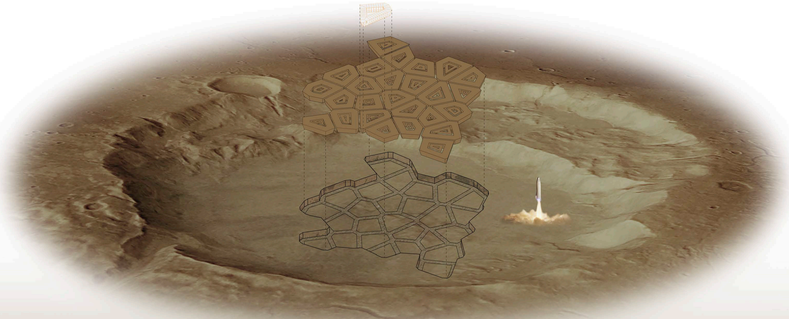
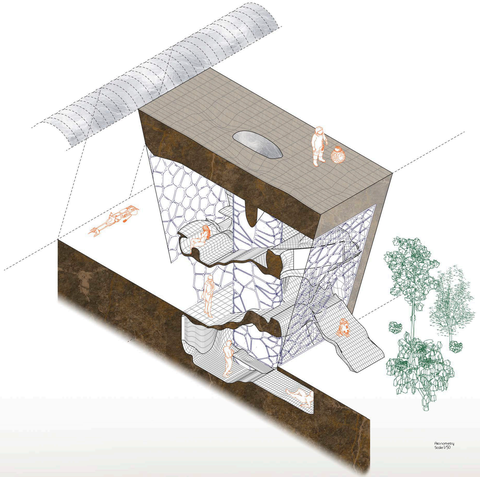
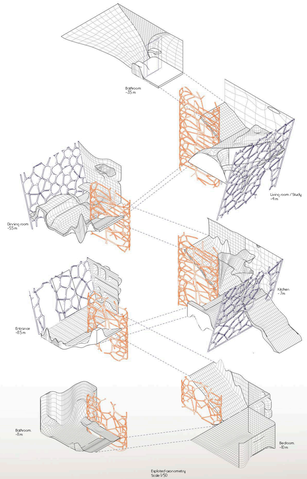
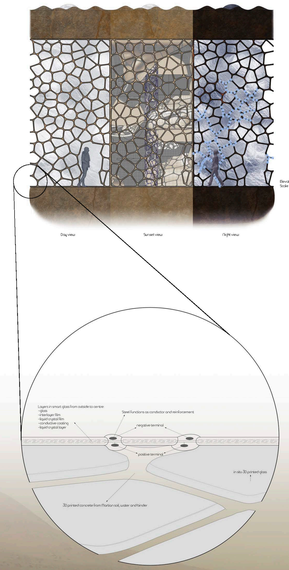
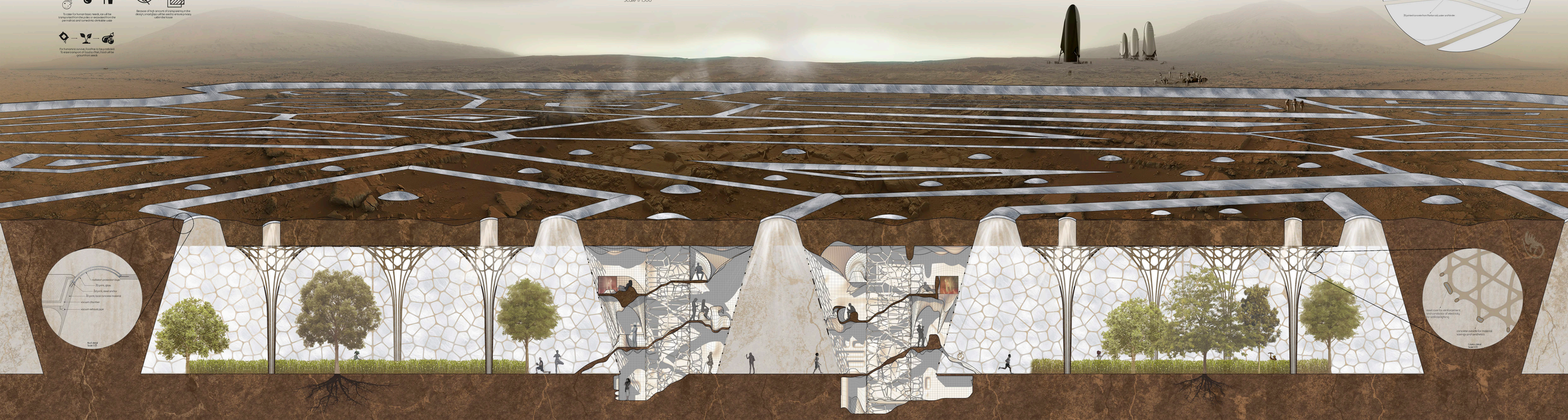
World population has risen from 2.5 billion people in the 1950s to 7.5 billion in 2017. The number will rise to 9.7 billion in 2050 and 11 billion in 2100 (United Nations, 2017). At some point in time, our planet will not be able to sustain human kind due to climate change and the reduction in living space, food and biodiversity.

To overcome this problem, mankind has to look beyond its own planet and become an interplanet species. We therefore propose to inhabit Mars. This close by planet contains the bare essentials for human existence.

To successfully inhabit Mars and the homeland that drive there, dwelling, communities and cities have to be designed and build. Ensure that the building are environmentally friendly and sustainable. A Martian vernacular architecture has to be established. The vernacular type should not only be able to protect against the harsh Martian environment, but also cater to social interaction between its inhabitants.



To establish a Martian vernacular architecture, the inspiration for the design comes from the Earth's Moon. The Moon's surface is an image of Mars' surface that showed a pattern that is very common on earth. The pattern provided the perfect shape for the urban plan. To further highlight this similarity, the facades and cores in the houses are decorated with the same pattern



Urban model
Scale 1/1500