



CONCEPT STATEMENT

Leaving Earth

The human race must look to outer space within the next century or it will become extinct, Professor Stephen Hawking. Many scientists and astrophysicist as Hawking fear mankind is in great danger and its future "must be in space" if it is to survive. Threats to the existence of the human race such as war, resource depletion and overpopulation meant it was at its greater risk ever. It will be difficult enough to avoid disaster in the next hundred years, let alone the next thousand or million,

The Noah's Ark legend is common to the Christian, Jewish and Moslem religions as it is made a sign for the worlds. So make yourself an ark of cypress wood; make rooms in it and coat it with pitch inside and out. This is how you are to build it: The ark is to be three hundred cubits long, fifty cubits wide and thirty cubits high. Make a roof for it, leaving below the roof an opening one cubit high all around. Put a door in the side of the ark and make lower, middle and upper decks. I am going to bring floodwaters on the earth to destroy all life under the heavens, every creature that has the breath of life in it. Everything on earth will perish.

God told Noah to build a big boat, called an ark, and He told Noah exactly how to do it. The ark was to be 450 ft. (137 m) long, 75 ft. (23 m) wide and 45 ft. (14 m) high. It was to have three decks, be divided into rooms and have a door in the side.

Deep space voyage

This vessel is a new approach of space passive design, it is a self-sustaining environment housing numerous creatures within its walls, designed to stay in deep space and to land on a new soil of Mars.

Solar sails (also called light sails or photon sails) are a form of spacecraft propulsion using radiation pressure exerted by sunlight on large reflective surfaces. A useful analogy may be a sailing boat; the light exerting a force on the reflective surfaces is akin to a sail being blown by the wind.

Solar sall craft offer the possibility of low-cost operations combined with long operating lifetimes. Since they have few moving parts and use no propellant, they can potentially be used numerous times for delivery of payloads.

Solar sails use a phenomenon that has a proven, measured effect on spacecraft. Solar pressure affects all spacecraft, whether in interplanetary space or in orbit around a planet or small body. A typical spacecraft going to Mars, for example, will be displaced by thousands of kilometers by solar pressure, so the effects must be accounted for in trajectory planning, which has been done since the time of the earliest interplanetary spacecraft of the 1960s.

In addition to the solar sails the vessel will be equipped with a nuclear reactor at its tail to move and operate the whole vessel.

Mars Landing

It is possible that there will be a habitable, Earth-like planet within 10 light-years, which is very close in astronomical terms. "However reaching it would take years with our current technology. "If we ever needed to move to another planet, Mars is probably our best bet.

Once the Vessel had landed on Mars it is designed to suit the new soil and to be a permanent residential and farming center.

The laser guided drills at the bottom of the vessel will start operating to open pathways to new underground colonies developed of the biomimicry of the ants colonies to be the residential shelters of the new residents

Ant colonies had proved that they are a sophisticated engineering structures that can long life survive through various crises either floods or high solar radiations...etc

The dirt excavated from the Mar's Soil will be gathered inside the vessel to be used to grow further crops and to start a new life.







