

Billie

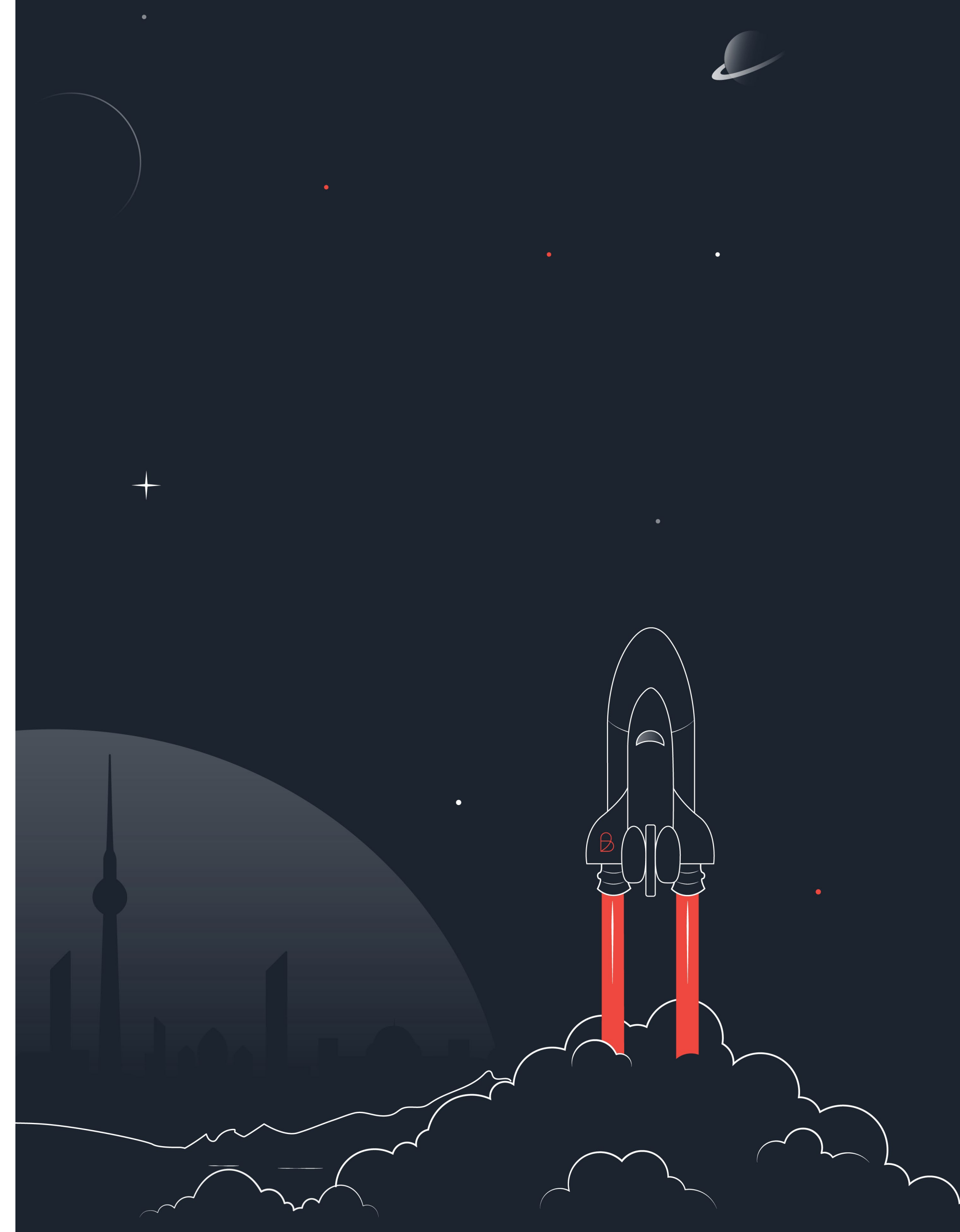
Mission 2121



Once upon a time in the year 2121...

Humans finally met extraterrestrial civilizations. Spaceships are now able to travel to galaxies far away. Isaac Asimov can finally be proud of us.

THE DREAM CAME TRUE





But what about Billie?

The past 100 years were extremely bright and successful.

Billie conquered Europe, America, Africa and the entire Earth.

We even have a Sales Team in Antarctica but they are not quite happy.

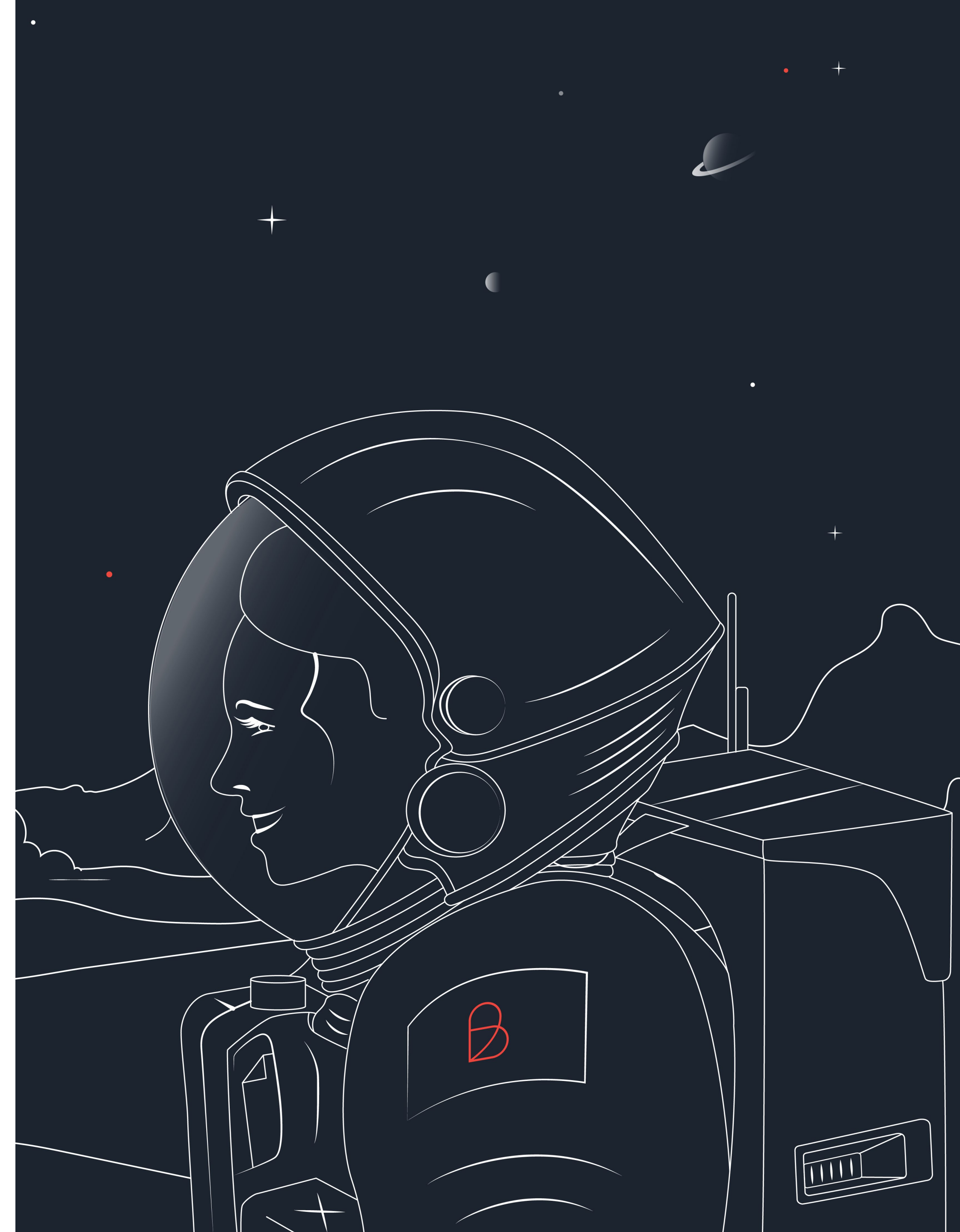
Time for the next challenge

It turned out that the Martian B2B market looks pretty attractive.

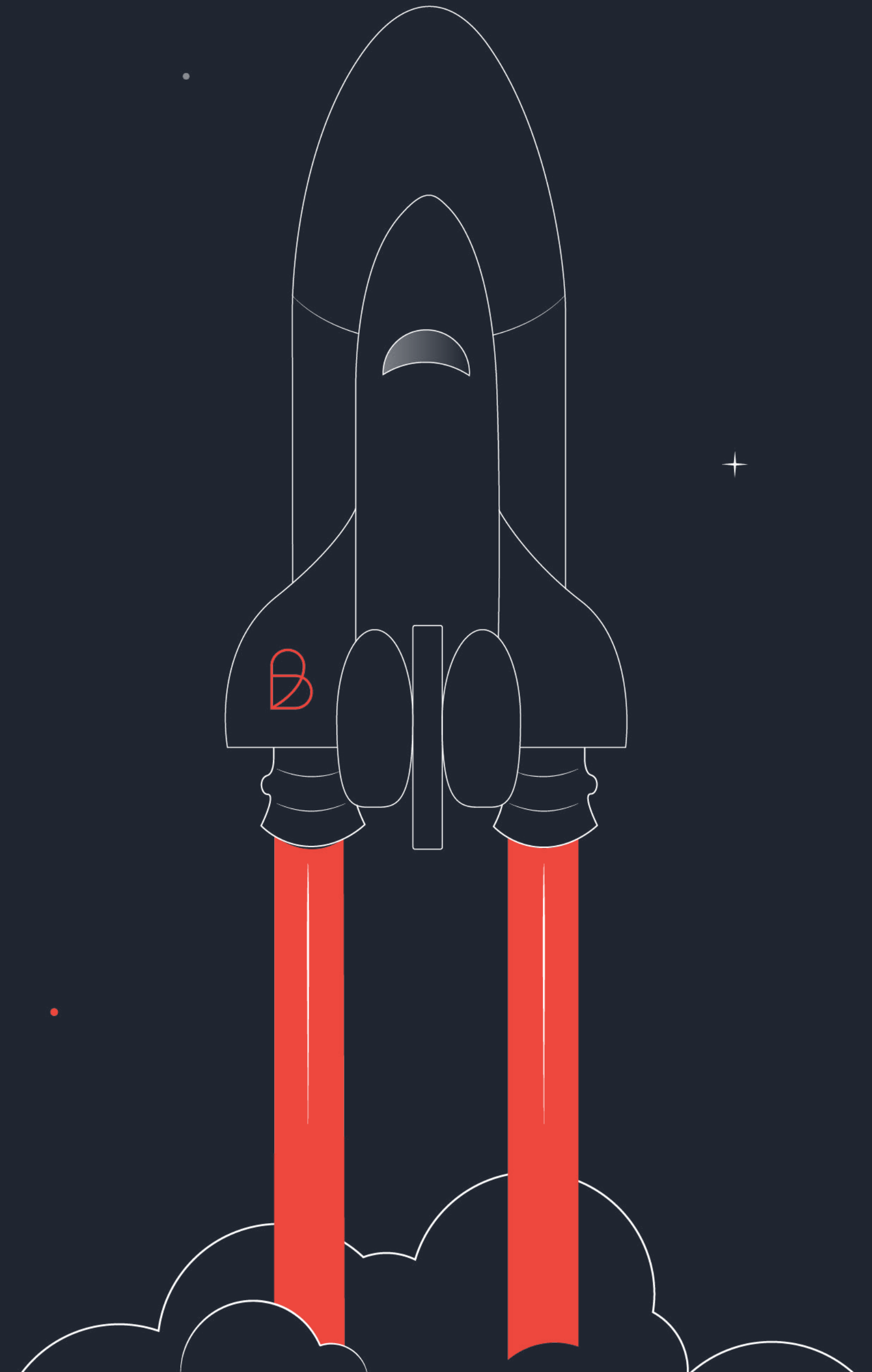
Martian entrepreneurs are hard workers. SMEs on Mars produce goods and provide services.

But... they need liquidity, insurance, and collections.

Same problems as on Earth. And it makes Mars a perfect destination for the next Billie's office.



Now, let's get back to 2021



TASK

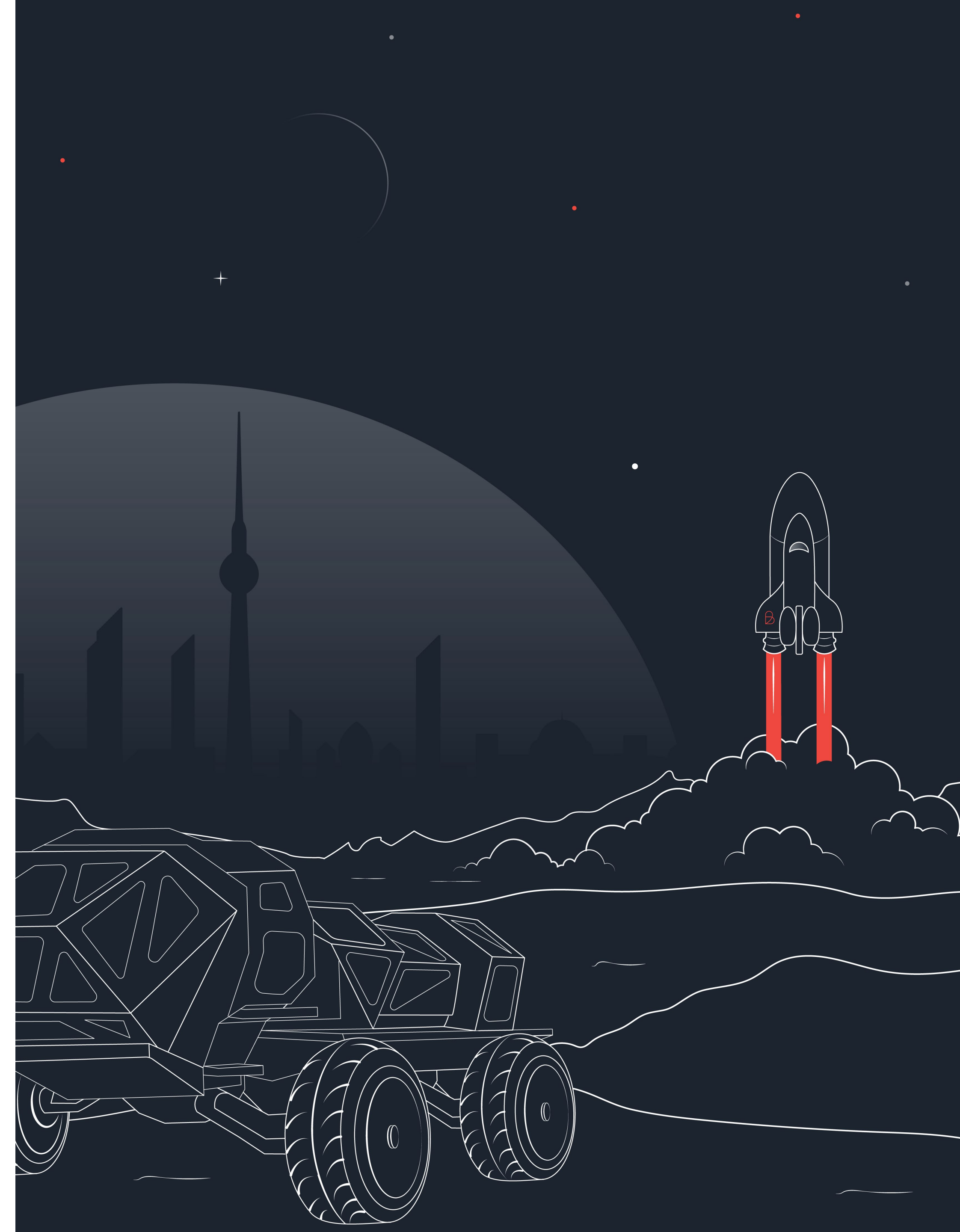
Problem solving

One of the fundamental problems of space missions is a time synchronization between Earth and Space. The time on Mars and Earth is ticking differently and it is necessary to keep it under control. Here are some useful links: [one](#), [two](#), [three](#).

You need to write a microservice that we will install on our spaceships, satellites and in the Billie Mars office in 2121.

That microservice should receive the time on Earth in UTC as an input and return two values: the Mars Sol Date (MSD) and the Martian Coordinated Time (MTC).

You can use any PHP framework but don't forget to cover it by tests, because we don't want our astronauts' lives to depend on something untested.



**Good luck on your mission
and remember,**

Billie believes in you!

