

1.

**Yes**

The tricky part is that we do not have enough information about Olga. If she had children the answer would be Olga, in other case (Olga does not have children) the answer would be Sasha. In any case, we have the person with children who's looking at the person without them

2.

**For climate and environment experts:**

- 1) What could be changed in Antarctica in 10 years? (because of climate change, for example)
- 2) Don't we cause any ecological accidents like penguin movement or something?
- 3) Do we have permissions from eco-activists organisations?

**For supplies experts:**

- 4) Do we need specific kind of foundation to build in the ice? What kind?
- 5) Do we already have specific materials that have been already tested in such environment?
- 6) How do we provide energy for according operations?

**For transportation experts:**

- 7) How to provide materials on the continent? Do we need to start from building the port?
- 8) In which part of the continent will be buildings? The climate and country that provide supplies may vary.

**For human resources experts:**

- 9) How many workers do we need and where will they be living?
- 10) How many hours do we work per day? Does it vary at the summer (24-hours daylight) and at the winter (24-hours night)?
- 11) Psychologists for workers will be on the continent or online?
- 12) How do we provide a local hospital for emergency cases?

3.

The easiest part is population. In CR **10 mil** people. But try to find any person who use mechanical weights. From the simple research we understand that digital one is cheaper. So, mechanical is used only by old people (20% of population according to

“statistics.com”) and probably some hipsters (10% of population according to “the atlantics”). Lets be take 40% of first and 5% of second: 800 000 and 50 000. A huge part of them are couples: 60% for the first (480 000) and 40% for the second (20 000). So, 320 000 +

$480\,000 / 2 + 30\,000 + 20\,000 / 2 = \mathbf{600\,000}$  for personal use

Also, there are **55,110** Supermarkets & Grocery Stores in Czechia businesses as of 2024. Barely any supermarket use mechanical but some groceries do. I would take just 5%. **2 750**

They are also used in sports. In CR 800 gyms, let's think that **250** of them have such a weight scale.

In total we have **603 000**. With adding some that were not calculated, my final answer will be **650 000**

4.

**Electrical part:**

- Accumulator have buttry according to display
- The scooter warns when the buttry is about to get empty during ride
- Overheating and water resisting

**Stability:**

- Stability of the scooter on different speeds
- Stability during accelerate and decelerate
- Stability in the moment of turns
- Amortisation on different kinds of surface

**Brake:**

- Test braking system on different speeds
- During accelerating or with the engine off
- With the different weather conditions

**General:**

- Test front and back lights
- Test stability on the kickstand