Hello, today I am going to talk about the application of the foresight method in my work. My talk will be in six parts and will take five minutes.

As I said previously, there are five main stages of foresight method: input, analysis, interpretation, prospection and outputs. Now let’s move to the 1st part of my talk which is about input method.

First, I want to remind you the essence of this method. Input methods gather information that is needed for us to understand the environments in which we operate. Therefore, I typed in google the theme of my work, which is Dual X-ray Absorptiometry, and got the overview. Here you can see the overview table of characteristics of different bone densitometry techniques. DXA (i.e. Dual X-ray Absorptiometry) technique allows one to achieve 1% precision. It is worth noting that all techniques have the same precise, but DNA is a “gold standard” because this technique possess predictable operation. So, we want to develop the device with the same characteristics or better.

Now let’s move to the next part which is an analytical method. This method advises us to catch early trends before it becomes too late. So, the interconnection between analytical method and my work is obvious. Although DXA is the “gold standard” there a lot of way to improve this technique. The main part of the densitometer is X-ray detector and its major characteristic is energy resolution. If someone apply a good detector in densitometers (i.e. fast operating, with high-energy resolution etc.), he occupy the sales area and can dictate any cost as monopolist. That is why it is important to use analytical method for forecast.

The next stage of foresight method is interpretive method. Interpretive methods seek to make sense of the information that has been collected and categorized in the previous two steps, in a more in-depth way. Telling the truth, I have found only social causes in relation to my work. This layer looks for social causes or factors underpinning the events. The social causes of development DXA are obvious too: we want to improve our medicine and to take care of elderly people.

Finally, I am going to talk about prospective method. Methods at this level are seeking to develop a view of alternative futures. I have used inductive method in order to forecast the future. To my mind, there are three ways of development the DXA. Scenario 1: We will use the CdTe detector with the good energy resolution and low emission time. Scenario 2: We will use the SiPM-scintillator detector with the worse energy resolution but shorter emission time. Finally, we will use the combination of these detectors, but it is difficult to predict its characteristics now.

To sum up, I have examined the application of foresight methods with regard to my work. This work was useful for me, because when I was doing this presentation some interesting thoughts about the future of the DXA technique visited me. That is all, thank you for your attention!