KPI's

The primary objectives of my project is to show the unequal distribution of female to males in the STEM industry and STEM education. Also, to show the pay inequality between the two sexes.

The metrics I would like to succeed in showing is:

1. The number of male to female in the industry

2. The number of male to female in STEM education

3. The pay difference between the two sexes inclusive of entry level wage to experienced

These metrics are important as it would show that I have gathered the correct amount of data to show the facts and that there is enough evidence to analyse in the first place. It will also show the correlation in the data to support each factor.

The people who will benefit from this project is educators and employers.

This will show them that they need to do more to encourage women into the industry and provide more routes to make this a successful endeavour. It will also show how they can fill the skills shortage for e.g. what has been called the cybersecurity skills gap. It should help them to create new pathways and open up more widespread opportunities equally all over the country and possibly the world.

The visuals I would use are line and bar charts to show how the numbers compare to each other.

I am hoping to use the past 5 or 6 years as this is when the STEM industry has been shouting out for new talent. I am going to use a yearly trend and possibly quarterly dependant upon the relevant data I have gathered.

I am hoping to use the first years data as a benchmark to compare these to as it should show how little or much progress the STEM industry has made.

I will use colour to highlight the difference and the changes by lines. I would like to ensure they are clear and understandable. If I can make them interactive it would help to explain more of what they show.

I would also like to show the progress of the points I am trying to make.