

# The Investment Problem

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## 1 Introduction

The first step in the Investment Case Study is to identify the Investment Problem. This will involve five main steps:

1. Identify the assets and liabilities of the client
2. Calculate and project forward the income and expenses of the client
3. Outline the goals of the client
4. Assess the level of risk that the client would be willing to take

## 2 Identify the assets and liabilities of the client

You have been told some details of the client that you will advise. They may own a house or a car. If you do not have information about something, you can make an assumption. At the end of the process you should have a balance sheet that outlines the assets and liabilities of the client. This will tell you their *net worth*; it will let you assess how much money could be raised through the sale of assets; it will identify the liabilities that will have to be covered by income or asset sales. Don't forget the inheritance.

## 3 Calculate and project forward the income and expenses

You have some information about the current income and expenses of the client. Once you have the basis income, you make an assessment of the expenses that they face. You can assume that you have asked them to fill

out a questionnaire. Take the expenses from the income to give an estimate of the spare cash. This may be a negative number.

Now project this forward. You will have to make some assumptions about the increase in wages and the adjustments that will be made if they change job or retire. You will also have to project the increase in cost of their expenses. This will leave you with an estimate of how much spare money will be available each year.

## **4 Outline the goals of the client**

You have been given very clear instructions about the goals of the client. What do they want to achieve? You have a picture of the assets and liabilities, you have a projection of the income and expenses each year, you now have to add the goals to your timeline so that it is clear what they want to achieve at each date. You must estimate the cost of the goals. This will leave you with an answer to the question -

How much money do they need and which year do they need it?

## **5 Assess the level of risk that the client would be willing to take**

Risk is a difficult concept. Some of you have already looked at this in the literature review.

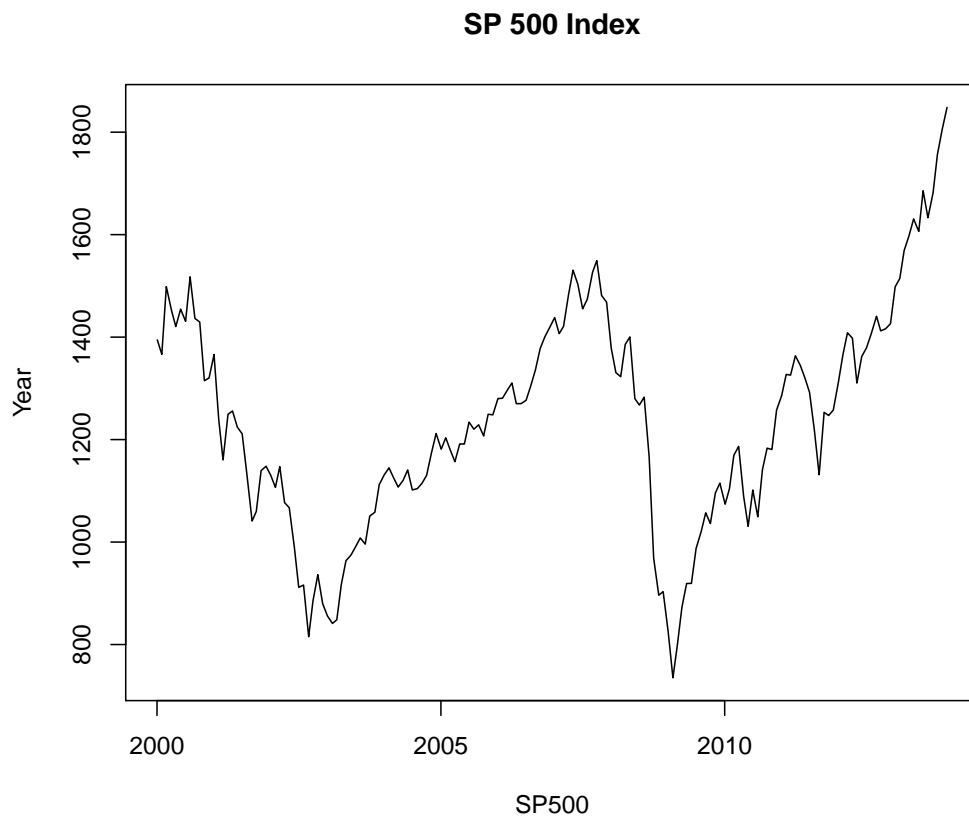
Risk tolerance is determined by a number of factors:

1. Age
2. Personalisty
3. Income
4. Culture
5. Investment goals

In reality, investment advisors would get their customers to complete a questionnaire that would provide some means of assessing their willingness to take risk.

## 5.1 Liquidity risk

One very important risk that firms will have to face is *liquidity risk*. This is the risk that you will have to sell the asset for price that is very different from what you bought it for. This increases as the date of the goal approaches. For example, people retiring in 2008 with a retirement fund full of equities would have a much smaller pension than someone retiring in 2006 because of the sharp fall in equity prices that was experienced in that time.



Therefore, in general, you people should take much more risk with their pension than people close to retirement. Investment funds will shift towards more liquid assets as people approach retirement age. You must consider this issue when turning the investment goals into asset allocation choices in the next section.