

#### Guide to using the SIMCO web app

#### http://finkit-simco.carloalberto.org/

Project: "Financial Literacy: a Key Tool to Improve People's Life Cycle" (FinKit)

http://www.finkit-cerp.carloalberto.org/

## The App

- This app simulates the maximum monthly spending capacity for an individual aged 60 and above, based on their pension benefit, financial and real assets and their cohort's life expectancy. The computation also takes into account the amount one could bequeath. The app simulates three possible scenarios if the consumer is homeowner, displaying the spending capacity that they could reach by making "liquid" (part of) their housing wealth.
- The app is one of the financial education tools in the "Financial Literacy: a Key Tool to Improve People's Life Cycle" project (FinKit, 2015-2018), funded by the European Erasmus+ programme and coordinated by CeRP-Collegio Carlo Alberto.
- This app is a <u>free financial education tool with no advertising purposes</u>. It is meant to show, in a very simplified way, how the spending capacity can be increased by exploiting a share of the "illiquid" wealth (without prejudicing the possibility of leaving a bequest).

## How to read this guide

- The guide explains the key elements for each screen of the app.
- The single elements are highlighted in the screenshots with different colours and explained in boxes having the same colour.



 $\mathsf{Red}\;\mathsf{circle}\to\mathsf{Red}\;\mathsf{box}$ 





WARNING: inserting unrealistic data and/or omitting inputs can compromise the plausibility of the results.

Note: There is no need to sign any privacy policy since the app does not ask for sensitive data and data entered is not stored in any database.

| PLEASE TELL US ABOUT YOURSELF  |        | The "A<br>consec   | Age" field is compulsory;<br>quently, the system  |
|--|--------|--------------------|---|
| Your Age<br>Compulsory field / Minimum age is 60   |        | disable<br>valid v | es continuation until a a alue is entered (minimum  |
| Pension (expected or in payment)          Net monthly value of your pension benefit (in €) |        | 60 ye<br>field).   | ars, as indicated in the  |
| Total amount of other monthly income (in €)  | 0      |                    |   |
| Minimum bequest  |        |                    | 0   |
| Estimated value (in €)   | ther n | nonthly incom      | The minimum value you wish to bequeath summing up financial (e.g. checkable deposits) and housing (e.g. |
| ← Previous Next →  | n €)   |                    | owned home) wealth.   |
| Home n   |        |                    | Click on the 💿 icons to   |
| You can return to the initial screen   |        |                    | obtain more information   |
| at any time by pressing the "Start"  |        |                    | about the various items   |
| button. In this case, you'll have to   |        |                    | listed.   |
| enter your data again.   |        |                    |   |

| HOUSING WEALTH<br>Do you own a house?<br>Yes  No<br>Yes  No<br>Next   | The app automatically marks the lack of a<br>owned home. It is possible not to modify<br>the field and proceed by pressing "Next"<br>(bearing in mind that the purpose of the<br>app is strictly linked to the monetization<br>of owned property). |
|---|--|
|   |  |
| HOUSING WEALTH<br>Do you own a house?<br>● Yes ◎ No<br>Value of the house<br>Estimated market value (in €)<br>Hypothetical house rent | If you answer Yes, other items to fill out will<br>appear. The "Value of the house" is<br>compulsory; consequently, the system<br>disables continuation until a value is<br>entered.   |
| 0<br>Min valid rent is 10000  | The "Hypothetical house rent" field is NOT compulsory but the system disables continuation if the value entered is lower than 100.   |

| FINANCIAL SITUATION         Checkable deposits         20000         Financial assets         2000         Annual % interest rate on financial assets         Estimated yearly average interest rate on financial assets                     | The fields in this screen <u>are not</u> compulsory<br>but if you enter a value in "Financial<br>assets", the system greys out the "Next"<br>command until you fill in the "Annual %<br>interest rate".  |
|--|--|
| Home Rext +  |  |
| Checkable deposits         20000         Financial assets         2000         Annual % interest rate on financial assets         0,         This value can be positive or negative. Use dot for decimals (max 3 decimals) eg.         0.003 | The annual interest rate can have a positive<br>or a negative value (e.g1).<br>To ensure correct reading, if decimal places<br>are involved, use the dot and not the<br>comma (e.g. $0.5\sqrt{-0.5} X$ ) |
| Home 🔒   | 8  |

|                    |                              |              | <b>e</b> |
|--------------------|------------------------------|--------------|----------|
|                    |                              | READY        |          |
|                    | Recap                        | of inputs:   |          |
| Age:               |                              | 60           |          |
| Pension benefit:   |                              | 1.000,00 €   |          |
| Other income:      |                              | 200,00 €     |          |
| Bequest:           |                              | 50.000,00 €  |          |
| House owner:       |                              | Yes          |          |
| House value:       |                              | 150.000,00 € |          |
| Estimated rent:    |                              | 550,00 €     |          |
| Checkable deposits | 5.                           | 20.000,00 €  |          |
| Financial assets:  |                              | 2.000,00 €   |          |
| Interest rate:     |                              | 1%           |          |
|                    | <ul> <li>Previous</li> </ul> | Submit 🔸     |          |
| L                  | Ho                           | me 🔒         |          |

You can navigate quickly from one input screen to another at any time by clicking on the icons at the top.

You can display the previous screen at any time by pressing the "Previous" button without losing data entered up to that point (unlike what happens when you press "Start").



Depending on the data entered, the duration of app processing may vary from scenario to scenario. If the symbol is moving, the app is running and performing the necessary calculations.



|           | Monthly (annual) s<br>1.276,85 € (1   | spending capac<br>I5.322,20 €) | The "Beq<br>wealth le    | uest" item shows the value of ft as an inheritance. Since this |
|-----------|---|--------------------------------|--------------------------|--|
| Bequest 🕄 | In this scenario, the bequest<br>corresponds to the value of the house,<br>as financial weath is totally consumed | 000,00 €                       | scenario<br>wealth (i.   | considers home to be illiquid<br>e. it does not generate money |
|           | Annual spending capacity  | Expected ev                    | that can b<br>the entire | be spent), the inheritance equals home value.                  |







You can click on the buttons above these graphics to display other graphs. To know exactly what you are viewing at any time, simply read the button highlighted in blue.

The "Expected evolution of financial assets" screen has two different lines: the annual spending capacity, already shown above (in red) and the value of financial wealth (in light blue).

Based on the life cycle model, it is assumed that this wealth is decumulated in the course of your life until it reaches zero. Calculations are based on the average life

Each graph can display precise values at certain dates by passing the mouse cursor over the graph (for example, the figure shows the spending capacity and financial wealth values calculated for February 2039).

There are three orange buttons at the bottom of each screen which you can use to run the spending capacity calculation under three alternative scenarios, resulting from:







The spending capacity graph now becomes a screen comparing the two capacities: under the base case scenario (in red) and under the bare ownership sale (in blue) option.

This provides an immediate comparison and helps to visualize the increase in spending capacity obtained by monetizing the home value.

The same interpretation of the base scenario except for the addition of the blue line with the annual spending capacity in the event of bare ownership sale.



Note the peak in value of financial wealth. It corresponds to the value obtained from the bare ownership sale. This value and the date when the contract is completed correspond to the indications given in the table at the beginning of the screen (in this case, July 2029 and  $\in$ 76,984.20).

N.B. It is assumed that you consume all available wealth before the bare ownership sale.

The inheritance corresponds to the entered desired sum of €50,000.





The reverse mortgage is a financial instrument used to monetize the value of home ownership while allowing the owner to continue living there, without having to pay any instalments.

When the homeowner passes away, the heirs may pay the debt and redeem the mortgage or let the bank sell the property and use the proceeds to settle the debt.

If the sum obtained from the sale is higher than the debt, the difference will be refunded to the heirs. On the contrary, they will not be required to settle any negative difference.



Press the (1) icon beside RM to display the main features of this contract: for example, the home estimation gap (depending on the owner's age) or the method of loan disbursement (in this case, a lump sum).

| Monthly (ann | In this scenario, the bequest is  | enario | 1.276,85 € (15.322,20 €)        |
|--------------|---|--------|---------------------------------|
| Bequest 🕄    | composed of the residual financial wealth and the value of the house, net |        | 50.005,60 €                     |
| Reverse mor  | of RM   |        | Contracting month/year: 12/2025 |

The inheritance is calculated as the sum of:

• financial wealth at the time of passing

• the difference between the value of the home and the value of the loan that must be repaid to the bank at the time of the owner's passing



The comparison graph indicates that the annual spending capacity increases after the stipulation of a RM.



The peak corresponds to the date when the RM is implemented. In this case, December 2025 (as indicated by the table at the top of the screen).

Reverse mortgage 🕄



The green line shows the reverse mortgage trend. The value indicates the sum that must be returned at the end of the contract in order to redeem the mortgage or, alternatively, the sum that must be subtracted after the house sale by the bank.

In this example, the initial peak corresponds to the single sum disbursed in December 2025, while the subsequent upwards trend reflects the accumulation of interests on the loan.

#### M - Product 2



The interpretation of the results for the second RM option is identical to the former one. Click on the info icon to display the main product features (in particular, disbursement as monthly annuities, which means that the money is disbursed by the bank once a month).



The light blue line representing financial wealth indicates that there is no peak in this scenario but an upwards trend starting from the RM stipulation.

This is because the loan is not paid as a single sum but in monthly annuities. The trend upwards because it is is assumed that monthly higher than income is monthly expenditure (as indicated by the spending capacity).



The green line shows the RM trend. The value indicates the sum that must be returned at the end of the contract in order to redeem the mortgage or, alternatively, the sum that must be subtracted at the time of sale by the bank.

In this case, there is no initial peak but an upwards trend that includes both the sums paid monthly and the interest on the loan.



It can happen that a simulation scenario for either RM option is not displayed, while this message appears. This is not due to a system error, but to the product constraints: sometimes the data entered do not lie within the conditions envisaged (for example, a minimum house value).

For further info on the app please contact: <u>cerp@carloalberto.org</u>

# For other FINKIT financial literacy tools, please visit:

http://www.finkit-cerp.carloalberto.org/