

# CGE Model web app user guide

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## Home page

Home page provides user with the option to provide the name of the file containing SAM matrix for year 2020 in .xlsx format (input without .xlsx extension). Secondly, the app needs the user to provide a setting file containing a matrix of sectors and factors based on said SAM matrix (also in .xlsx format). Shown below is an example:

```
## households factors inc_taxes goods_activities goods_commodities
## 1 HOU_0-30 K DTAX afarm cfarm
## 2 HOU_30-60 L <NA> afish cfish
## 3 HOU_60-90 <NA> <NA> amin cmin
## 4 HOU_90-95 <NA> <NA> afore cfore
## 5 HOU_95-100 <NA> <NA> aoilext coilext
## 6 GOV <NA> <NA> asmwork csmwork
```

After providing the dataset, user can choose the values of both capital and labour shocks (values from -1 to 1) occurring each year. The results for each next year are calculated based on results for previous year. E.g. in year 2020 a capital shock of value 0.3 takes place and the next year a labour shock of value -0.7 occurs. The values for year 2021 are calculated on results of previous year's shock.

Should you have any doubts about what a SAM matrix or capital and labour shocks are, we strongly encourage you to read an article on Wikipedia concerning the CGE model to get the gist. You can find it here: [link](#).

## Last Results

On this page you can see the results of calculations for the recently provided data and shocks. Table contains years from 2021 to 2025 as columns and variables and their values as rows.

## Contact

Provided on this page are our student's e-mail addresses. Should you have any questions regarding the app or model itself feel free to contact either of us.