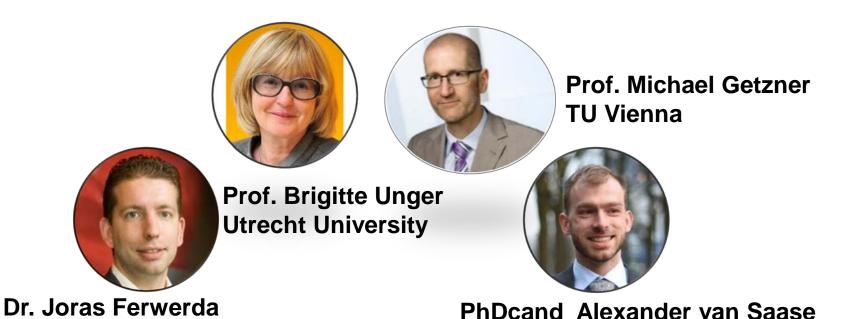
#### **Scientific Reports 2020**

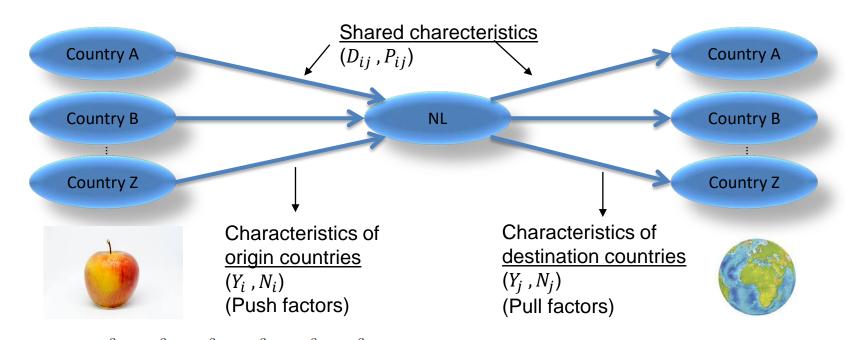
### Estimating Money Laundering Flows with a Gravity Model Based Simulation



Research Paper for iCOV - informatiebox crimineel en onverklaard vermogen and with special thanks to FIU Nederland for providing Suspicious Transaction Reports 2009 -2014



## Our gravity model & data: STRs from all countries to NL and from NL to all countries



$$X_{ij}=eta_0\,Y_i^{eta_1}\,N_i^{eta_2}\,Y_j^{eta_3}\,N_j^{eta_4}\,D_{ij}^{eta_5}\,P_{ij}^{eta_6}\,$$
 , ... ML/STR flows between countries i and j

Yi,j ......Gross Domestic Product of countries i and j

Ni,j .....size of the population in countries i and j

Di,j ... distance between countries i and j

Pi,j .....special preference relationship between countries i and j





### What attracts Money Launderers/ Laundering Flows?

$$X_{ij} = \beta_0 Y_i^{\beta_1} N_i^{\beta_2} Y_j^{\beta_3} N_j^{\beta_4} D_{ij}^{\beta_5} P_{ij}^{\beta_6}$$

```
\ln STR_{ij}^{\nu}o = \beta_{0} + \beta_{1} \ln Border_{ij} + \beta_{2} \ln Language_{ij} + \beta_{3} \ln Currency_{ij} + \beta_{4} \ln Colonial_{ij} + \beta_{5} \ln Religion_{ij}
+ \beta_{6} \ln Distance_{ij} + \beta_{7} \ln Trade_{ij} + \beta_{8} \ln gdp_{i} + \beta_{9} \ln gdp_{j} + \beta_{10} \ln gdppc_{i} + \beta_{11} \ln gdppc_{j} + \beta_{12} \ln egmont
+ \beta_{13} \ln egmont_{j} + \beta_{14} \ln conflict_{i} + \beta_{15} \ln conflict_{j} + \beta_{16} \ln corruption_{i} + \beta_{17} \ln corruption_{j}
+ \beta_{18} \ln taxhaven_{i} + \beta_{19} \ln taxhaven_{j}
```

12-11-2019

**U.S.E.** Presentation



#### **INSERT TABLE 2**

**What attracts Money Launderers?** 



## INSERT TABLE 3 Results throughflow

- look at Canada
- Money laundering is 1.9% for OECD, 3.0% for the World – without tax evasion money!!)
- Biggest launderers are the US and UK (40% of all ML in OECD countries)
- The Netherlands are a throughflow country, but less dramatic when compared to its neighbours.
   Domestic ML is its biggest challenge
   U.S.E. Presentation

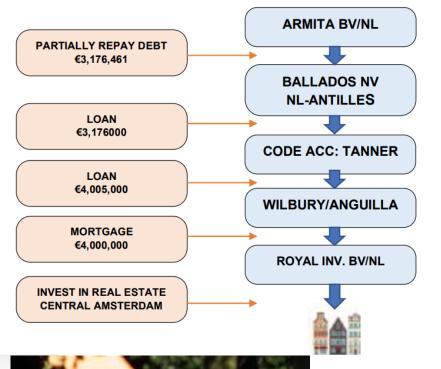


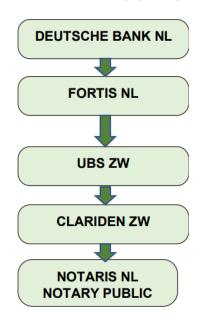
#### **School of Economics**

**TRANSACTIONS** 

Money is pumped around the globe 5 times on average

# BC REPORT p.22 Figure 3 3 million Euro blackmailed from Willem Endstra by Willem Holleder and laundered through Jan-Dirk Parelberg CORPORATIONS BANK ACCOUNTS





Source: Koningsveld (2015)
Dissertation