# Tax Increment Financing as a tool for public infrastructure development

# Findings from a simulation experiment

er Lenferink *(s.lenferink@fm.ru.nl)* y A. Samsura *(d.samsura@fm.ru.nl)* van der Krabben *(e.vanderkrabben@fm.ru.nl)* 



### lackground

ifficulties in financing area development: Standstills in development as result of economic crisis From active land policy (municipality as developer) to more involvement of businesses / local owners

lew instruments required: <u>Tax increment financing (TIF)</u>? Pre-finance investments in area by future tax revenues generated by investments Introduced in 1950s; popular in Anglo-Saxon world

IF is currently not applied in the Netherlands, therefore unclear: roles of municipality and private developer consequences for program to be developed distribution of contributions to TIFs



# lesearch objective

IF has not yet been applied in the Netherlands: Modification of TIF to Dutch context is not straightforward

eeper insight in relation municipality-developer is required:

How will introduction of TIF change negotiations between municipalities and private developers in area development?

- How do (public and private) contributions to TIF affect the program to be developed?
- What is the role of information availability in such negotiations?
- How does communication affect the negotiations on TIF?

# Experimental design (1) - Hypotheses

In contributions and program to be developed:

- . Municipalities provide higher contribution to pre-investment if more social housing is included in program.
- . Private developers provide higher contribution to pre-investment if more expensive housing is included in program.

In information availability and communication:

- If information on payoff structures is available, negotiations will be more efficient and will result in better balanced public and private contributions.
- . If communication is allowed, negotiations will have a greater chance to result in an agreement and will result in a better balance between social and expensive housing in development program.





 Communication influences number agreements,

Especially for closed info, why?

- Players choose to share info thro communication
- If info is revealed, communication becomes less important



results in round 2 through learning:

e negotiations: better accustomed to TIF, otiation setting and procedure:

s easier if you are more accustomed to the otiations"



### bids in total, for succesful and unsuccesfull negotiations

realed info limits amount of bids in negotiation



#### age profits of players

egotiations do not commonly end up in equal profits general, open communication brings profits closer together

owever, only open communication - limited info, profits really approach each hy? Participants often decided to share information voluntarily, leading to bet lations and results than in 'forced' revealed info setting



ogram remains similar, but municipality decreases contribution vealing info strengthens negotiation position of municipality

cial housing increased if communication allowed:

Nunicipality aim more at developing social housing, than gaining profits: "I hat tried to develop social housing as much as possible, while preventing to get a loss on the development?





#### cussion

nmunication helps to establish social housing program, ut, at the expense of municipal profits

sharing can speed up negotiation processes and cut down TIF transaction c ut, practical limitations to open-book negotiations (competition-sensitive info!)

-fold objective (economic and social) of municipality in TIF provides private evelopers opportunity to reap benefits from public investments

ommended research into:

tructured assessment of different TIF models (experiment only one TIF-mode uarantees and safety precautions in TIF (deal-makers and –brakers) ole of communication on negotiation strategies in area development

r. Sander Lenferink *(s.lenferink@fm.ru.nl)* r. Ir. D. Ary A. Samsura *(d.samsura@fm.ru.nl)* rof. Dr. Erwin van der Krabben *(e.vanderkrabben@fm.ru.nl)*