

# Kap. 6.2: Spojitá simulace

Systemová dynamika  
Softwarové nástroje

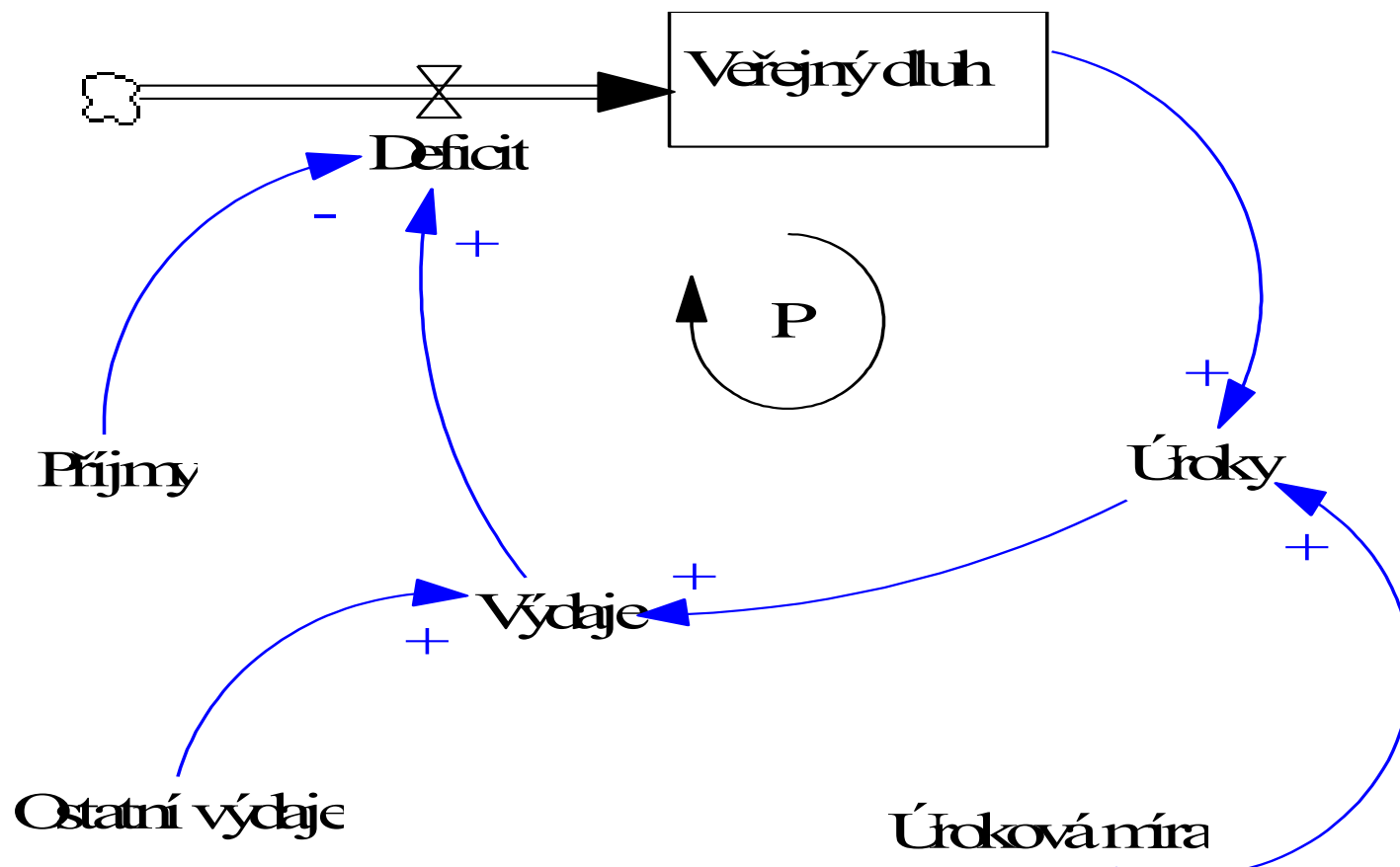
Martin Dlouhý  
2019

# Spojité simulace / systémová dynamika

- Spojité simulace = proměnné (stav systému) se mění spojitě v každém okamžiku; model má formu soustavy diferenciálních rovnic
- systémová dynamika (system dynamics) = typ spojité simulace
- Zakladatelem systémové dynamiky je Jay W. Forrester (MIT)
- První program pro systémovou dynamiku DYNAMO (1950s), autoři z MIT napsali pro výzkumy J. W. Forrestera
- Systémová dynamika byla použita ve studii [The Limits to Growth](#) (1972) pro Club of Rome
- Nejrozšířenější SW nástroje: POWERSIM, VENSIM, STELLA



# Systemová dynamika – pozitivní a negativní zpětné vazby, stavové a tokové veličiny





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Summer greetings from Powersim, includes information on opening hours during the summer holiday.

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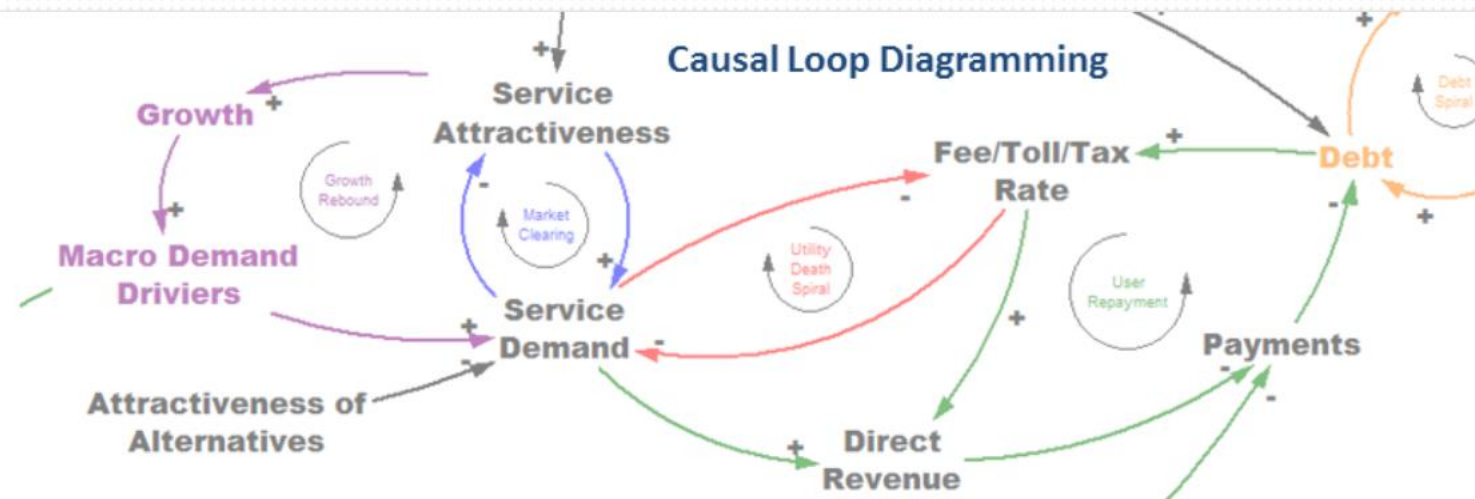
### **Advanced workshop at System Dynamics Society conference**

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