

MEASUREMENT ERROR

Literatura

Billiet 2016

Alwin 2016

Saris a Gallhofer 2014, part I, kap. 1

Groves 2004, kap. 1

Measurement error



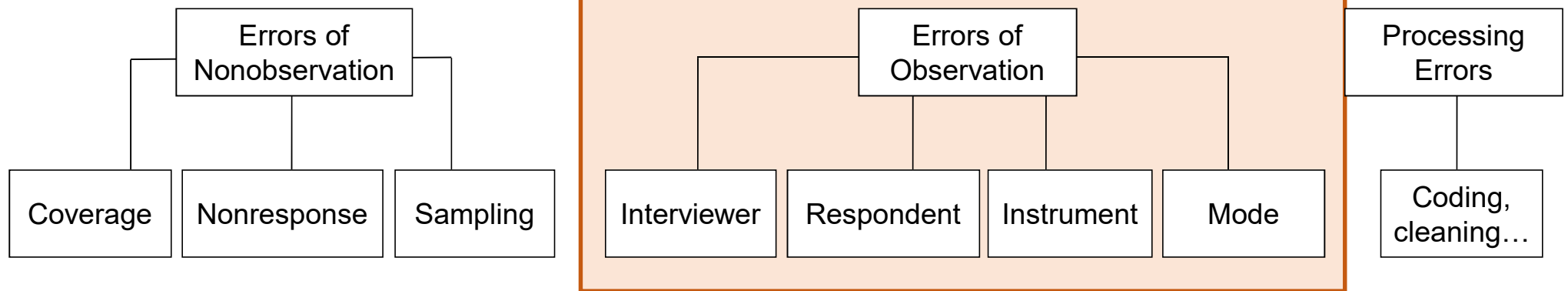
$$e = Y - T$$

Measurement error

Table 2.2 Five Major Sources of Nonsampling Error and Their Potential Causes

Sources of Error	Types of Error
Specification error	Concepts Objectives Data elements
Frame error	Omissions Erroneous inclusions Duplications
Nonresponse error	Whole unit Within unit Item Incomplete information
Measurement error	Information system Setting Mode of data collection Respondent Interview Instrument
Processing error	Editing Data entry Coding Weighting Tabulation

Measurement error



Measurement error

Respondent selection issues

Sampling error

Coverage error

Nonresponse error at the unit level

Nonresponse error at the item level

Measurement error due to respondents

Response accuracy issues

Measurement error due to interviewers

Postsurvey error

Survey administration issues

Mode effects

Comparison error

Classical test theory

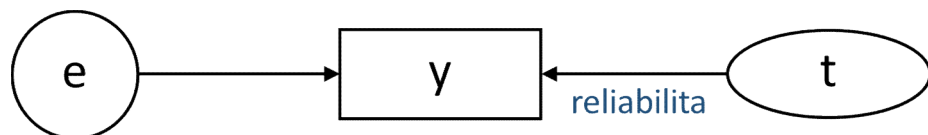


$$e_i = Y_i - T_i$$

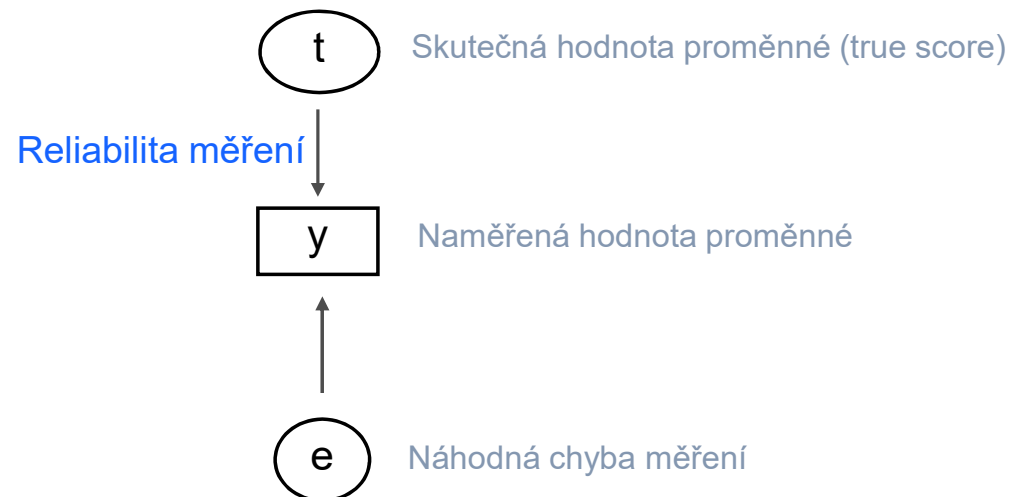
$$\text{VAR}[Y_i] = \text{VAR}[T_i] + \text{VAR}[e_i]$$

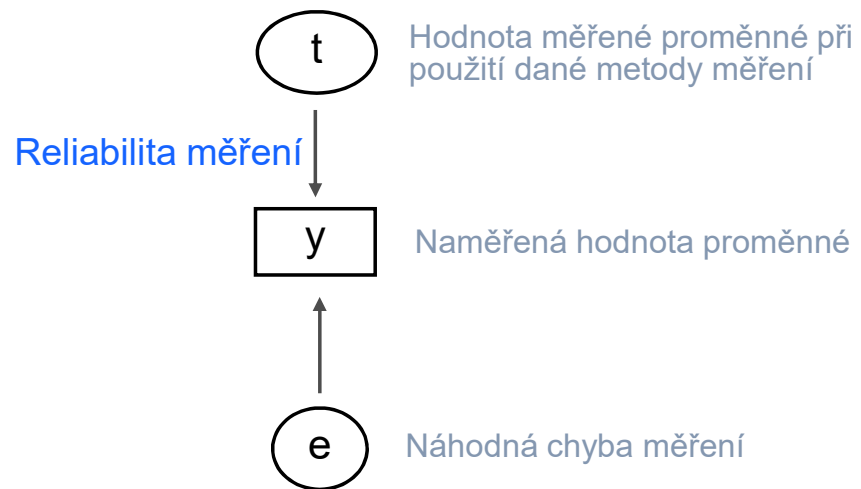
$$\text{COV}[T_i e_i] = 0$$

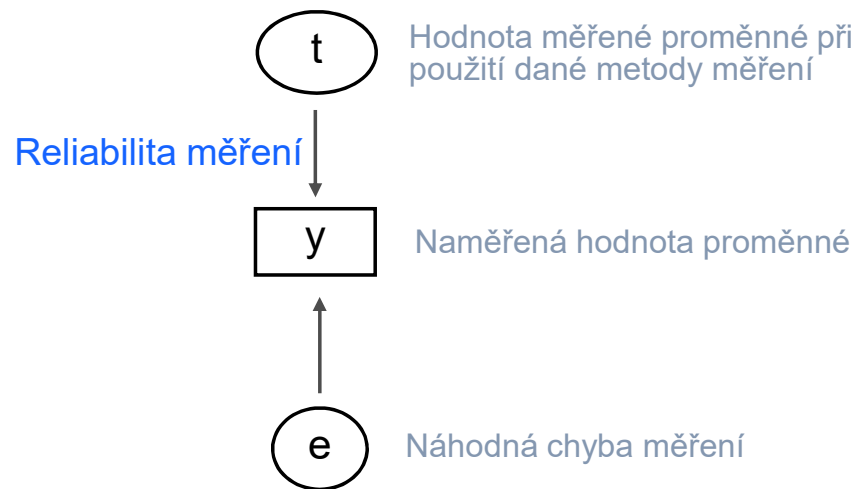
Reliabilita



Validita?







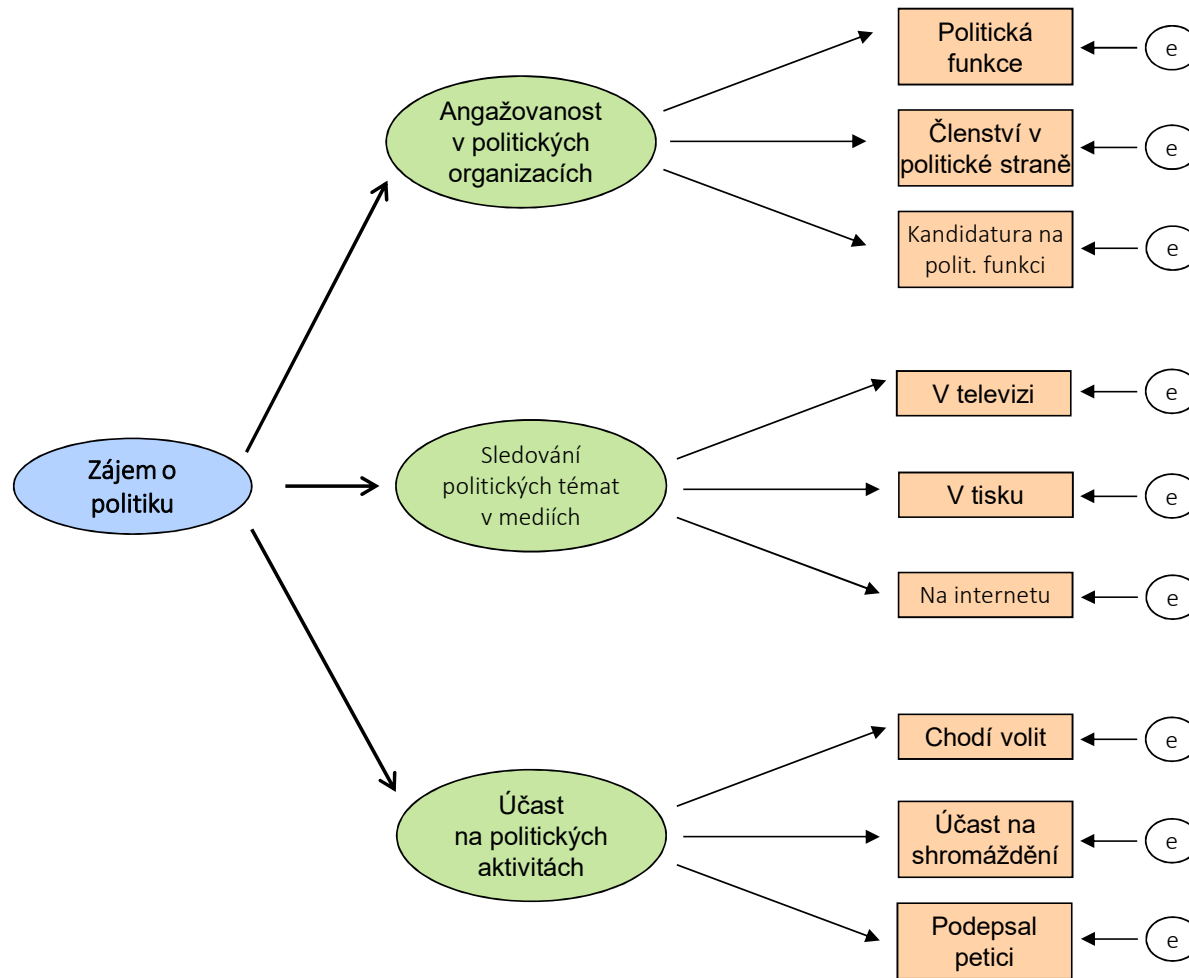
Operacionalizace

Úroveň teorie: teorie, hypotéza, konstrukt...

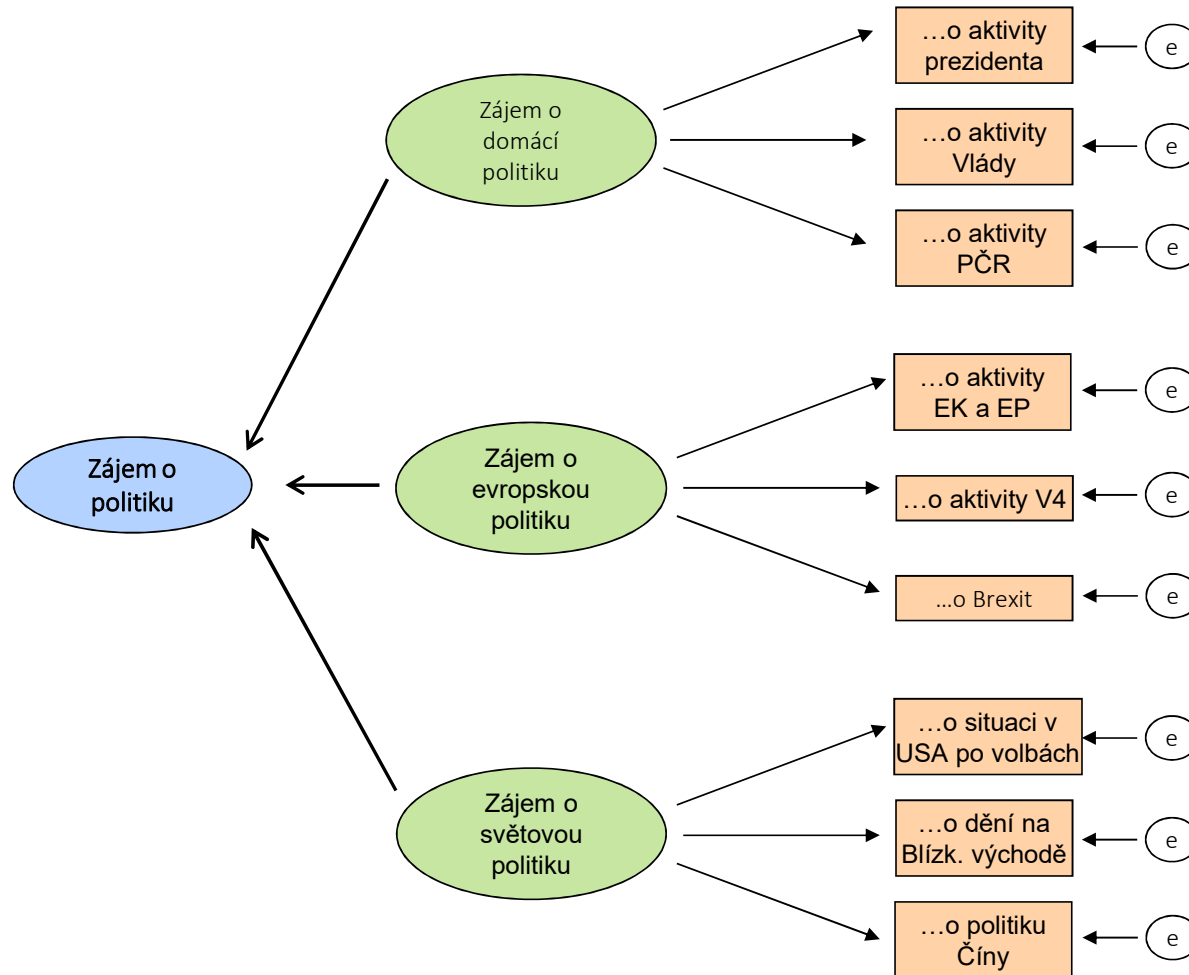
Úroveň empirie: pozorování, měření...



Postulativní koncept/konstrukt s reflektivními indikátory



Postulativní koncept/konstrukt s formativními indikátory



Intuitivní koncepty

Subjektivní

- Hodnocení
- Důležitost
- Hodnoty
- Pocity
- Stanovisko
- Příčinný vztah
- Vztah podobnosti
- Preference
- Normy
- Politiky, politická orientace
- Práva
- Tendence k jednání
- Očekávání do budoucna
- Přesvědčení

Objektivní

- Chování
- Události
- Demografika
- Znalosti
- Čas
- Místo
- Kvantity
- Postupy

Intuitivní
koncept

Doména
(téma)

*IK: „Jak byste **zhodnotil** svůj **zájem o politiku**?“*

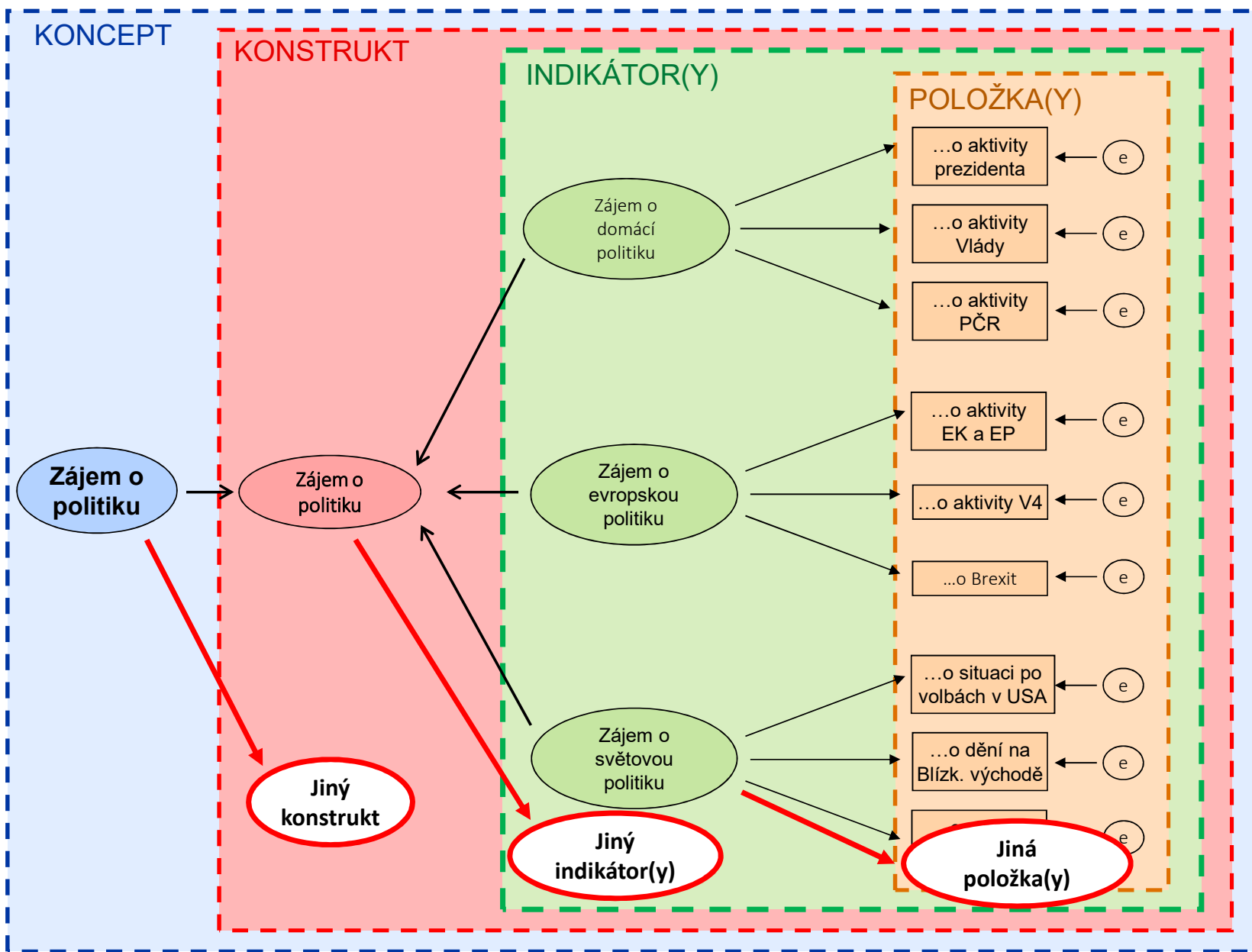
1. velmi se zajímám

2. trochu se zajímám

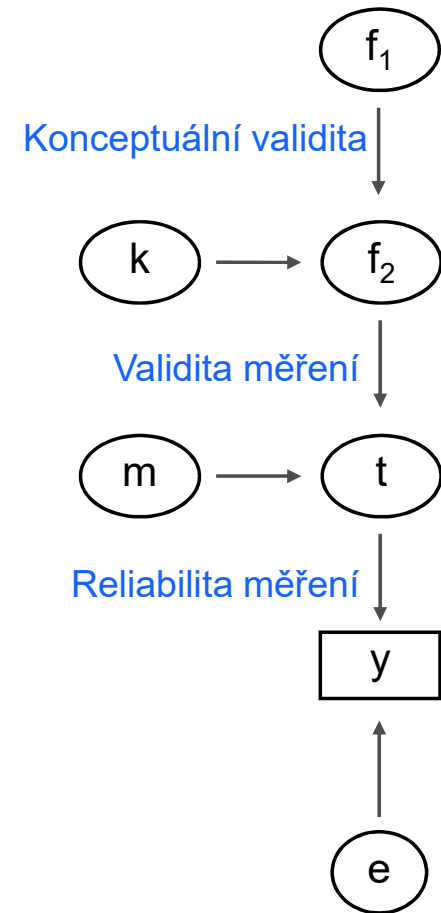
3. moc se nezajímám

4. vůbec se nezajímám

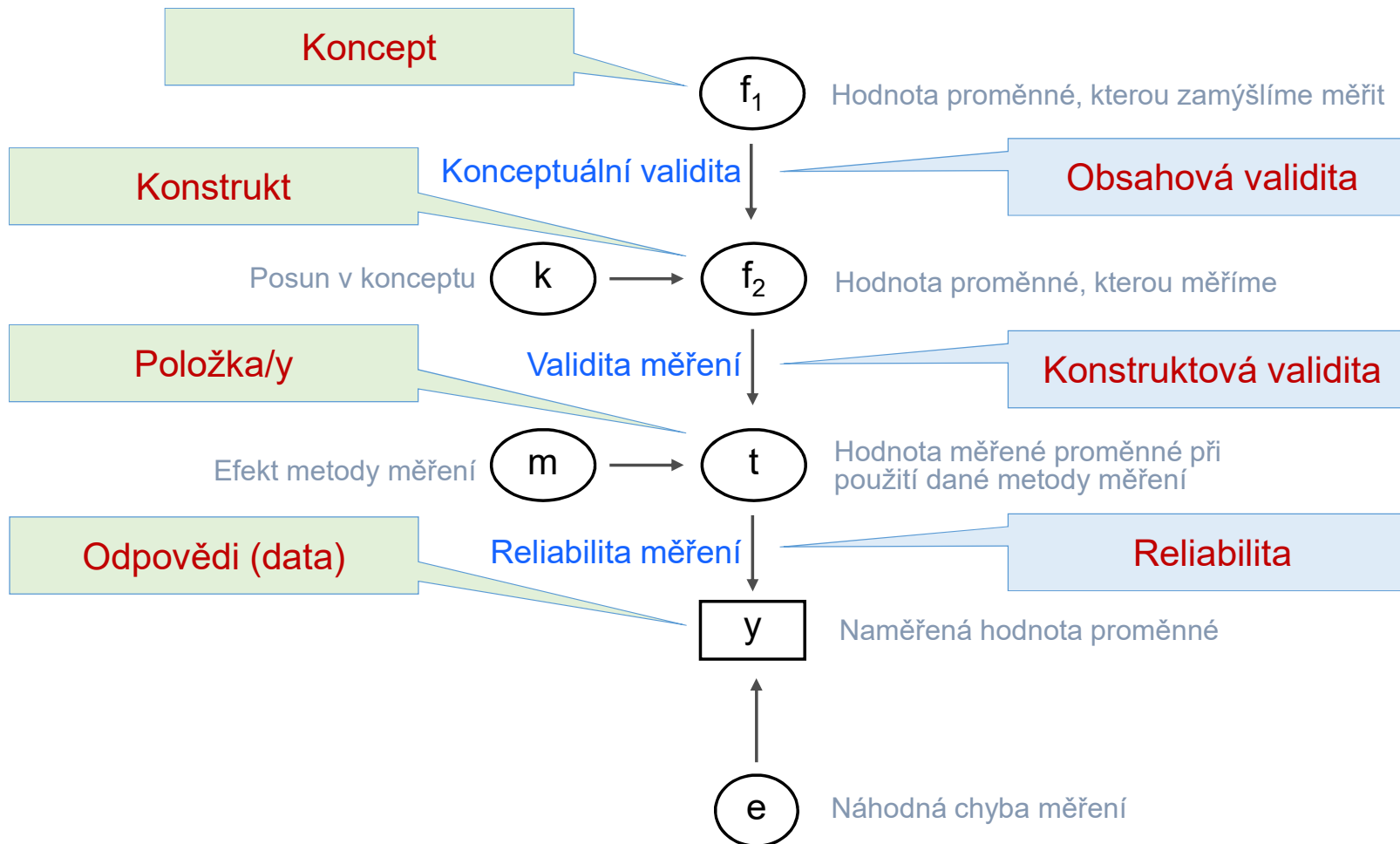




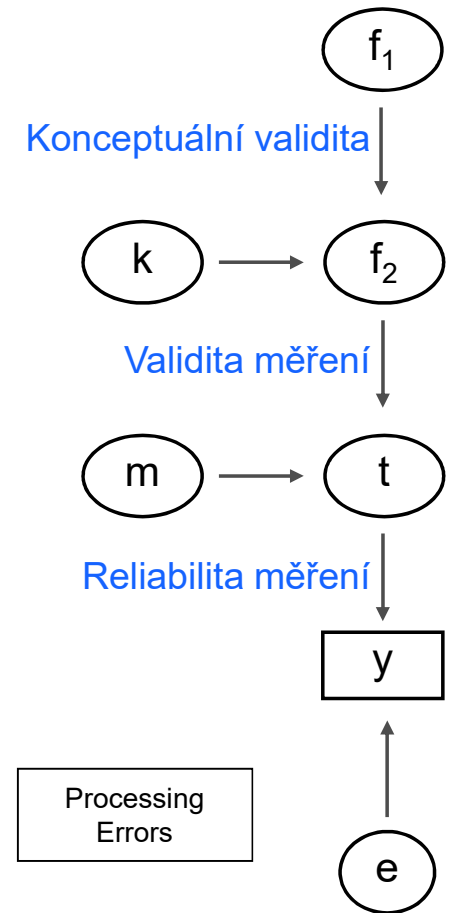
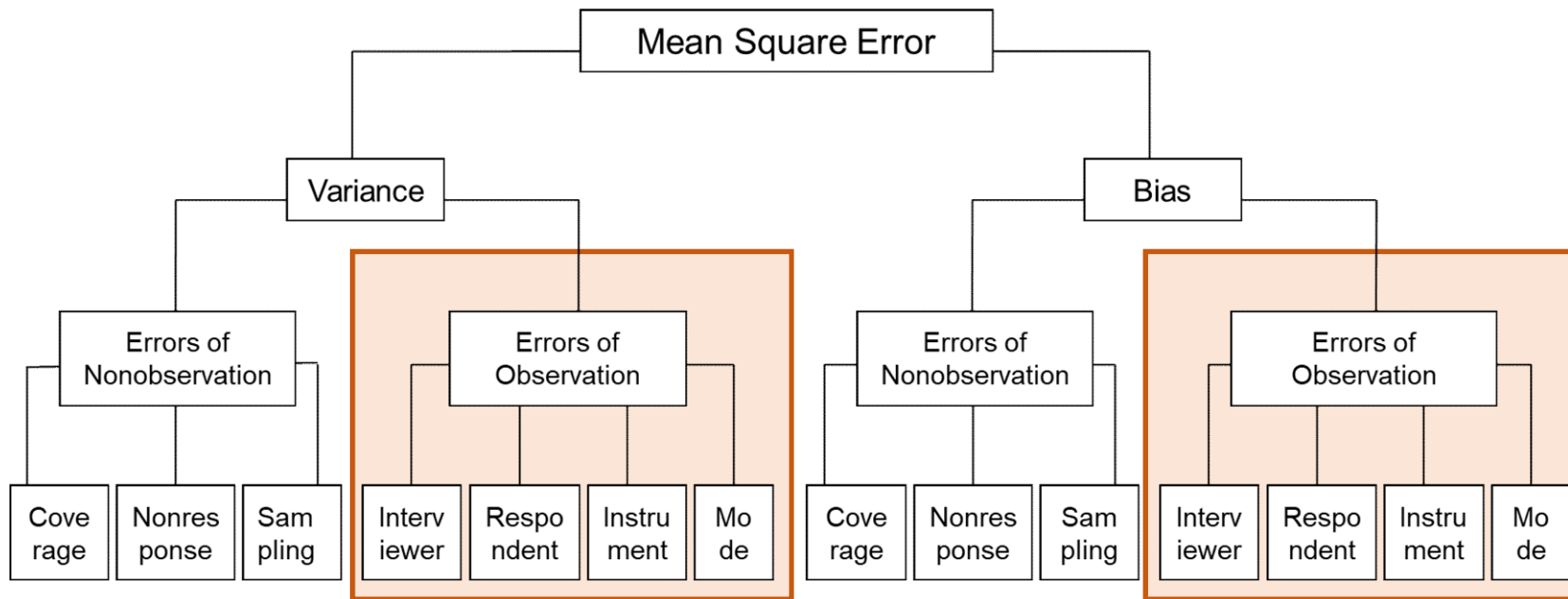
Measurement Error a Model měření



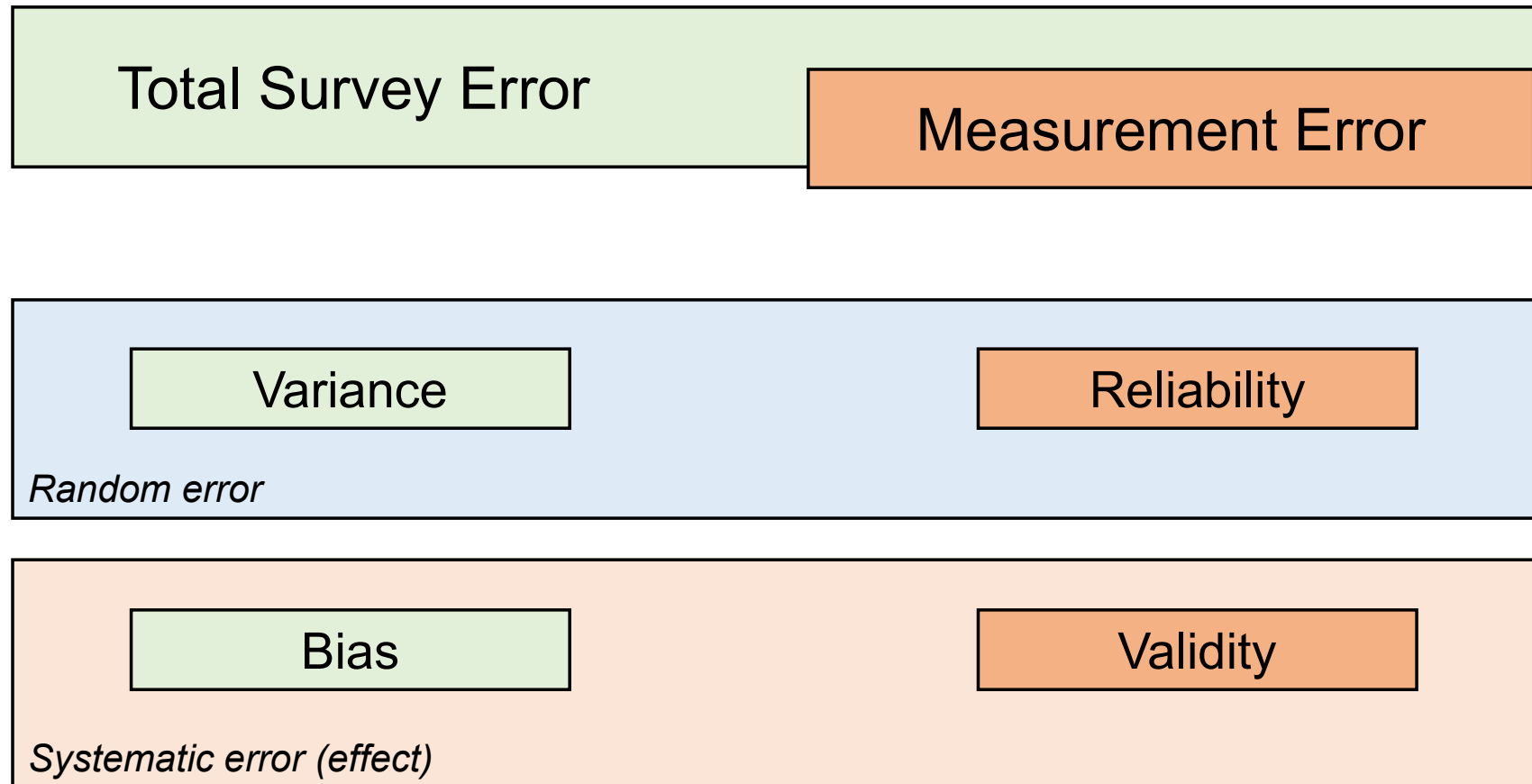
Model měření



TSE a Measurement Error



TSE a Measurement Error



TSE a CTT

