

# The V-Dem Measurement Model

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V-Dem Kick Off  
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# Elections (Austria)

1. Read Question. 2. Click & drag to select years. 3. Apply or Edit specific dates, if desired. 4. Apply or type response. 5. Rate Confidence. 6. Submit. 7. Repeat for remaining years. 8. Click "Next".

Undo

## (Regional government elected) :

At the regional level, are **government** offices elected in practice?

"Government offices" here refers to a regional executive and a regional assembly, not a judiciary and not minor bureaucrats. An executive is a single individual (or a very small group) (e.g., a governor). An assembly is a larger body of officials, who may be divided into two chambers. "Elected" refers to offices that are directly elected by citizens or indirectly elected by a regional elected assembly. All other methods of obtaining office – including appointment by higher or lower levels of government – are considered to be non-elected. In classifying a position as elected one is making no judgments about the freeness/fairness of the election or the relative extent of suffrage. One is simply indicating that there is an election and that the winner of that election (however conducted) generally takes office.

Min: 0 Max: 5

- ☐ (0) Generally, offices at the regional level are not elected.
- ☐ (1) Generally, the regional executive is elected but not the assembly.
- ☐ (2) Generally, the regional assembly is elected but not the executive.
- ☐ (3) Generally, the regional executive is elected and there is no assembly.
- ☐ (4) Generally, the regional assembly is elected and there is no executive.
- ☐ (5) Generally, the regional executive and assembly are elected.

Confidence: 0%

I have no idea at all. [Any scores accompanied by a confidence level of zero will be treated as missing data.]

Submit

Jump To Question :

Regional government elected

Previous

Next

Exit

	00	01	02	03	04	05	06	07	08	09
2005						2005	2006	2007	2008	2009
2010	2010	2011	2012	2013	2014	2015	2016	2017		

Click and drag to select range of years.

Specific Dates:

Add

Del

Edit

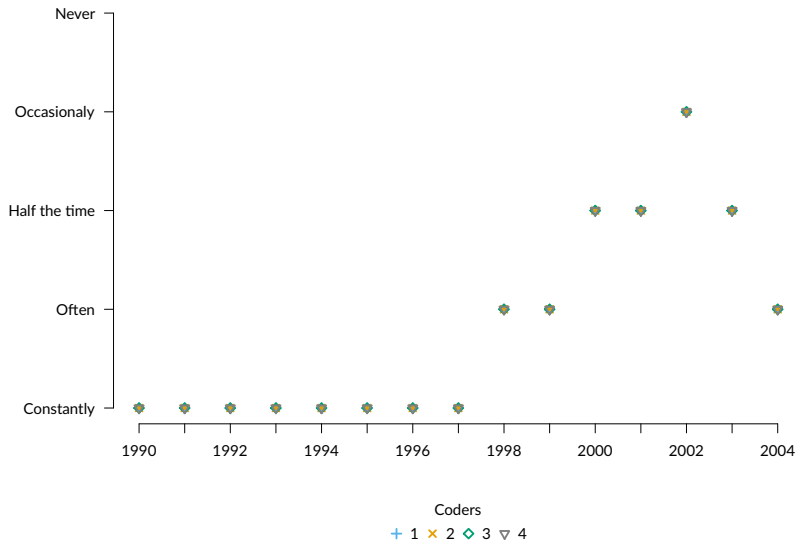
Legend

'▲': At least one date in this cell does not have an answer.

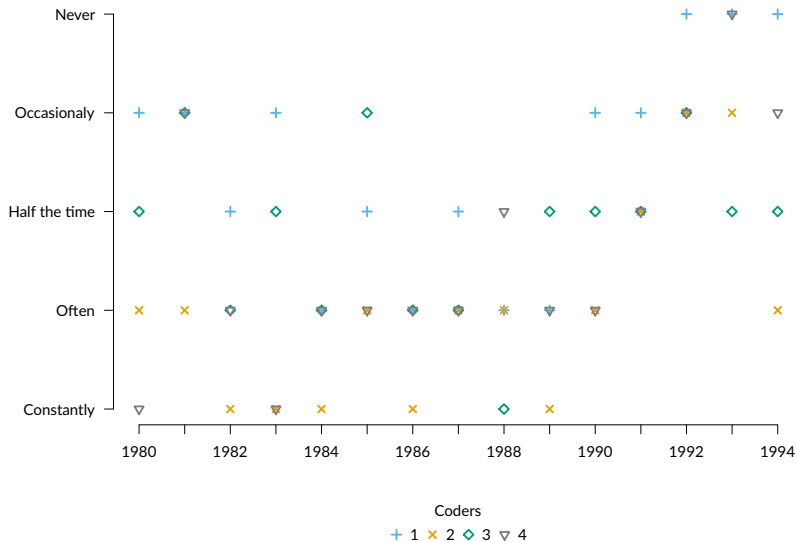
'⚠': All dates in this cell have an answer, but at least one does not have a confidence rating.

'✔': All dates in this cell have both an answer and a confidence rating.

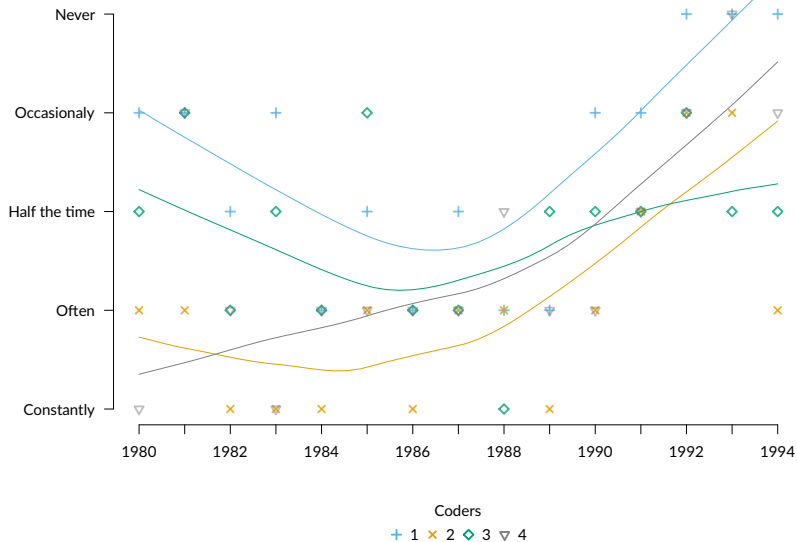
## Executive Embezzlement in Junja

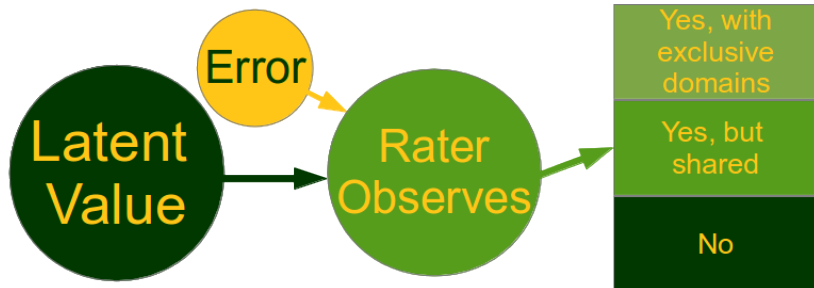


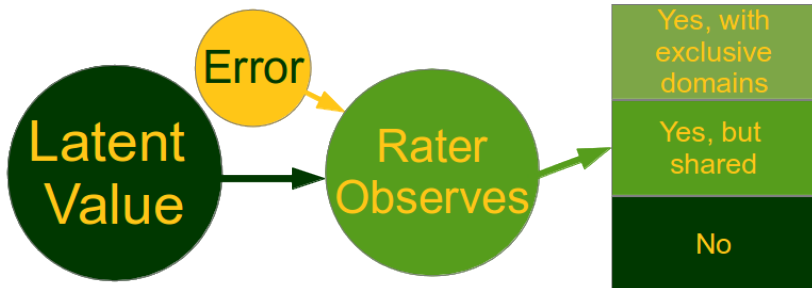
# Executive Embezzlement in Molvamark



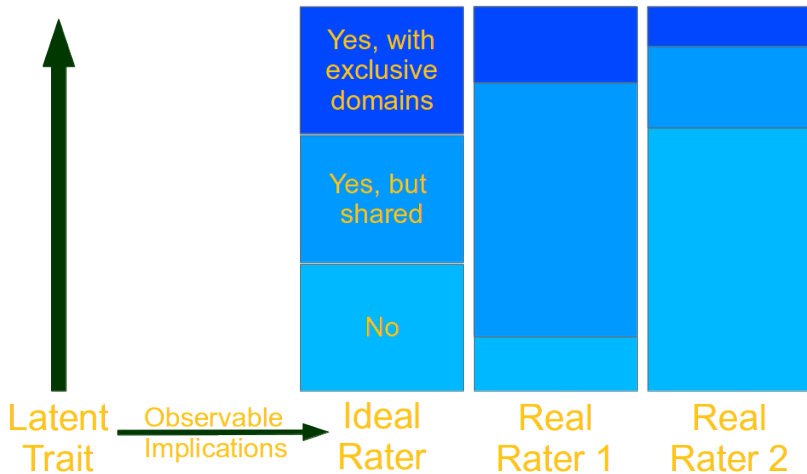
# Executive Embezzlement in Molvamar







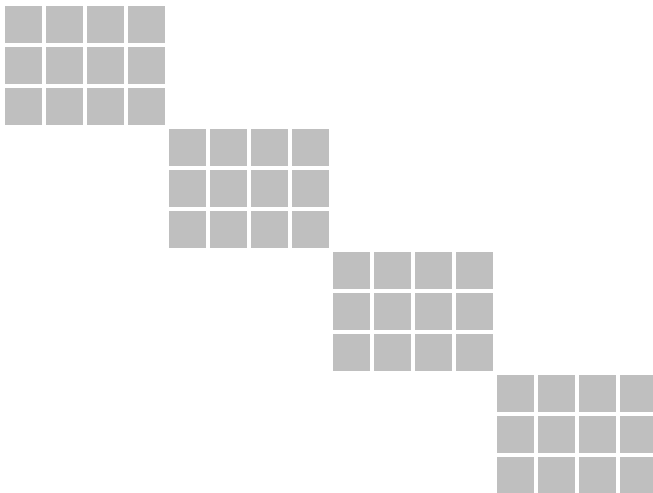
This is not all ...



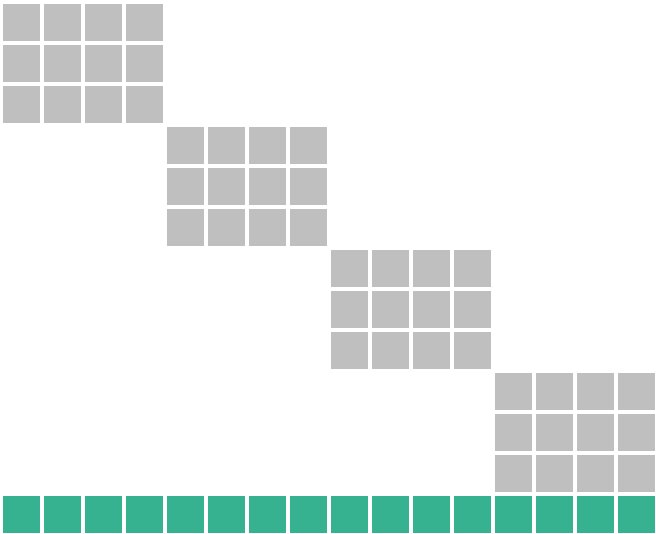


# Expert

A B C D E F G H I J K L M N O P

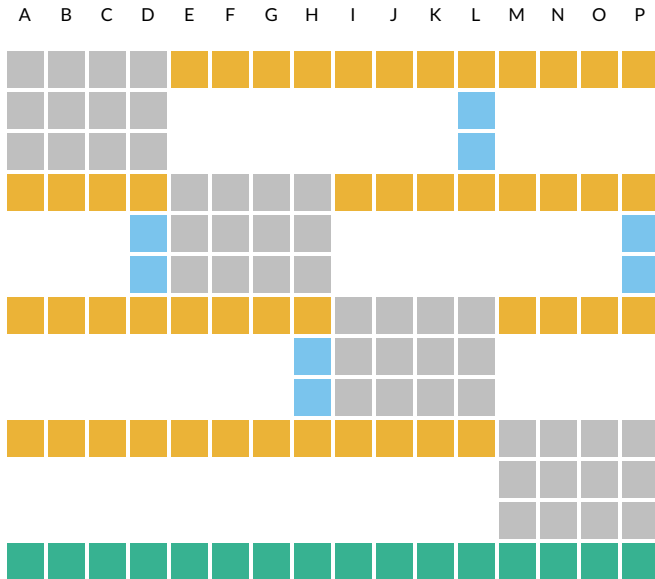


A B C D E F G H I J K L M N O P





# Expert



# The Model

# The V-Dem Measurement Model

```
rating[unit, expert] =  
    f(  
        truth[unit],  
        reliability[expert],  
        thresholds[expert]  
    )
```

# The V-Dem Measurement Model

$$y_{ie} \sim \text{Categorical}(\mathbf{p}_{ie})$$

$$\mathbf{p}_{ie} = \{p_{ie1}, \dots, p_{ieK}\}$$

$$p_{iek} = \phi(\tau_{e,k+1} - \beta_e \zeta_i) - \phi(\tau_{ek} - \beta_e \zeta_i)$$

$$\boldsymbol{\tau}_{ek} = \{\tau_{e1} = -\infty, \gamma_{e1}, \dots, \gamma_{eK-1}, \tau_{eK+1} = \infty\}$$

$$\gamma_{ek} \sim \text{Normal}(\gamma_{c[e]k}^C, 0.25)$$

$$\gamma_{ck}^C \sim \text{Normal}(\gamma_k^W, 0.25)$$

$$\gamma_k^W \sim \text{Uniform}(-6, 6)$$

$$\beta_e \sim \text{Normal}^+(1, 1)$$

$$\zeta_i \sim \text{Normal}(z_i, 1)$$

# Future Development

- Incorporating coder confidence and characteristics into model to better model reliability
- Allow reliability to vary across observations
- Modeling correlated error to obtain better confidence estimates
- ...