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Framing contracts and jurisdiction ahead to match $p = \text{"Economy Funds"}$ and $v = \text{"Economy Velocity"}$ that can be modelled with typical approaches for fuction $z = \text{"arrival state"}$ depending on $x = \text{"starting state"}$, so that "work" $W = F \cdot r = F \cdot (z - x)$:

Table 1: Modelling Functions

| Type | Model | Linearisation |
|-------------------|----------------------|--------------------------------------|
| Linear | $z = a + bx$ | $z = a + bx$ |
| Gemetric | $z = a \cdot x^b$ | $\log z = \log a + b \cdot (\log x)$ |
| Exponential deca. | $z = a \cdot b^x$ | $\log z = \log a + (\log b) \cdot x$ |
| Exponential nat. | $z = a \cdot e^{bx}$ | $\ln z = \ln a + bx$ |
| Periodical | | |
| Polynomial | | |
| Taylor | | |

Linear optimization to achieve target states " z, h ":

1. Oneness situaiton modelling:

minimize efforts = z or maximizie return = z

$$\begin{aligned} \text{target:} & \quad z = c^T \cdot x \\ \text{min. constraints:} & \quad [a_{ki}] \cdot x \geq b \\ \text{max. constraints:} & \quad [a_{ki}] \cdot x \leq b \\ \text{condition:} & \quad x \geq 0 \end{aligned} \tag{1}$$

2. Duality situation modelling:

minimize efforts = z and maximize return = h

$$\begin{array}{ll}
\text{target min.:} & z = c^T \cdot x \\
\text{min. constraints:} & [a_{ki}] \cdot x \geq b \\
\text{condition:} & x \geq 0 \\
& \text{and} \\
\text{target max.:} & h = b^T \cdot y \\
\text{max. constraints:} & [a_{ki}]^T \cdot y \leq c \\
\text{condition:} & y \geq 0
\end{array} \tag{2}$$

3. Normalization:

$$\begin{array}{ll}
\text{target:} & z = c^T \cdot x \\
\text{min. constraints:} & ([a_{ki}] - x_{n+k}) \cdot x = b \\
\text{max. constraints:} & ([a_{ki}] + x_{n+k}) \cdot x = b \\
\text{condition:} & x \geq 0
\end{array} \tag{3}$$

4. Solution with [Simplex algorithm](#)

multilinear and exponential models ...