

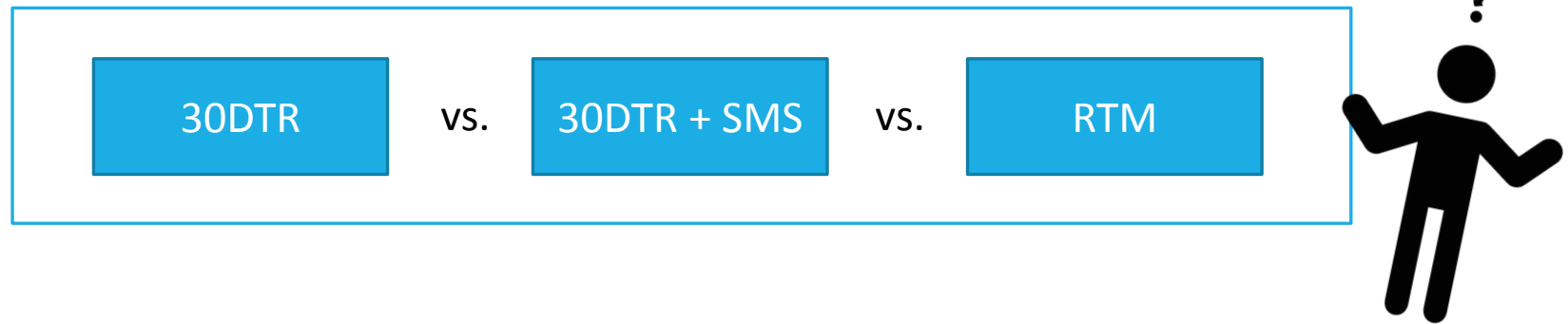
# A tool to evaluate the costs and potential benefits of continuous temperature monitoring systems

TechNet Conference  
May 2015

# Presentation outline

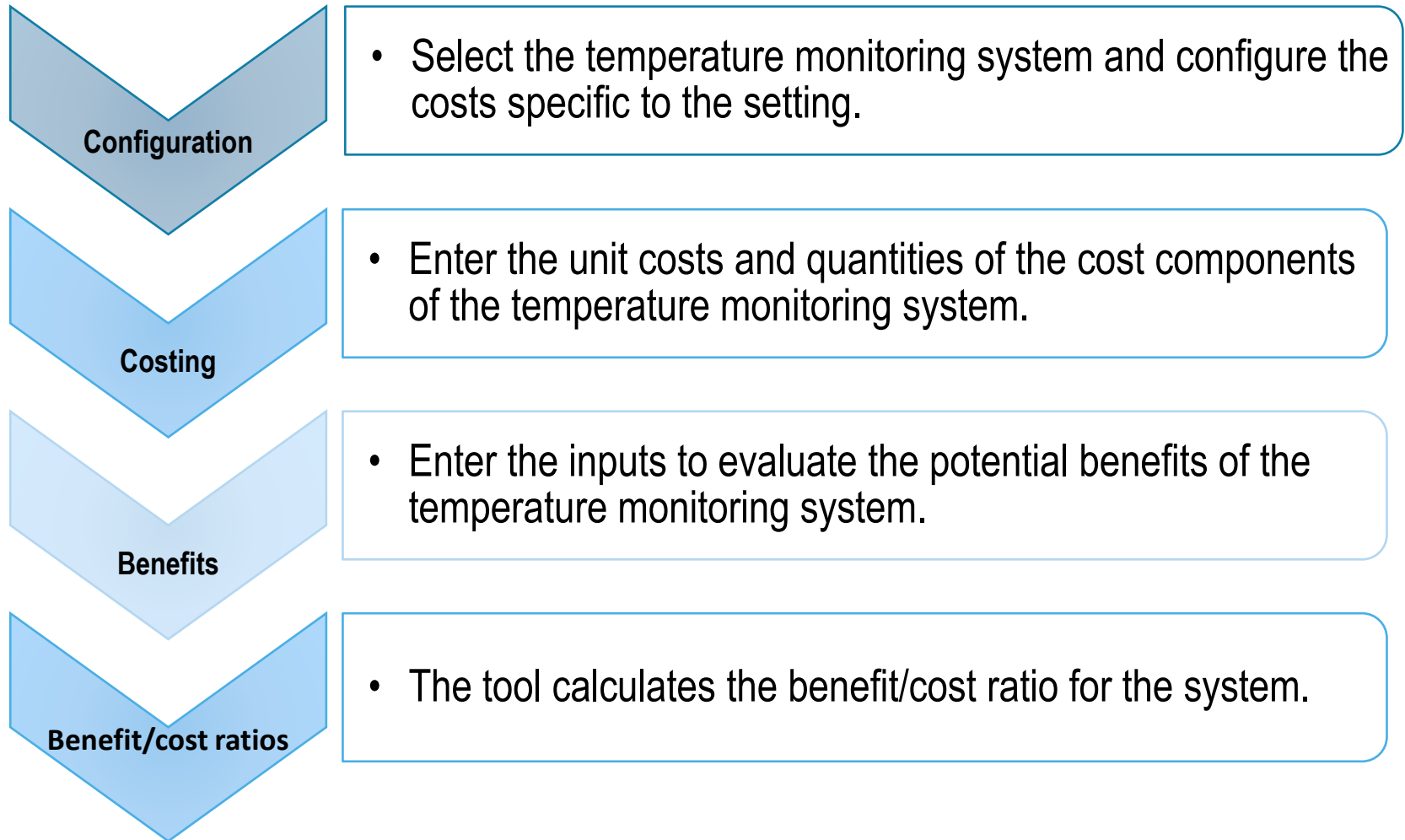
- Background.
- Steps to populate the tool.
- Costing tool.
- Benefits estimator.
- Benefit/cost-ratio calculator.

No tool existed that adequately captured costs for evaluating different continuous monitoring interventions.

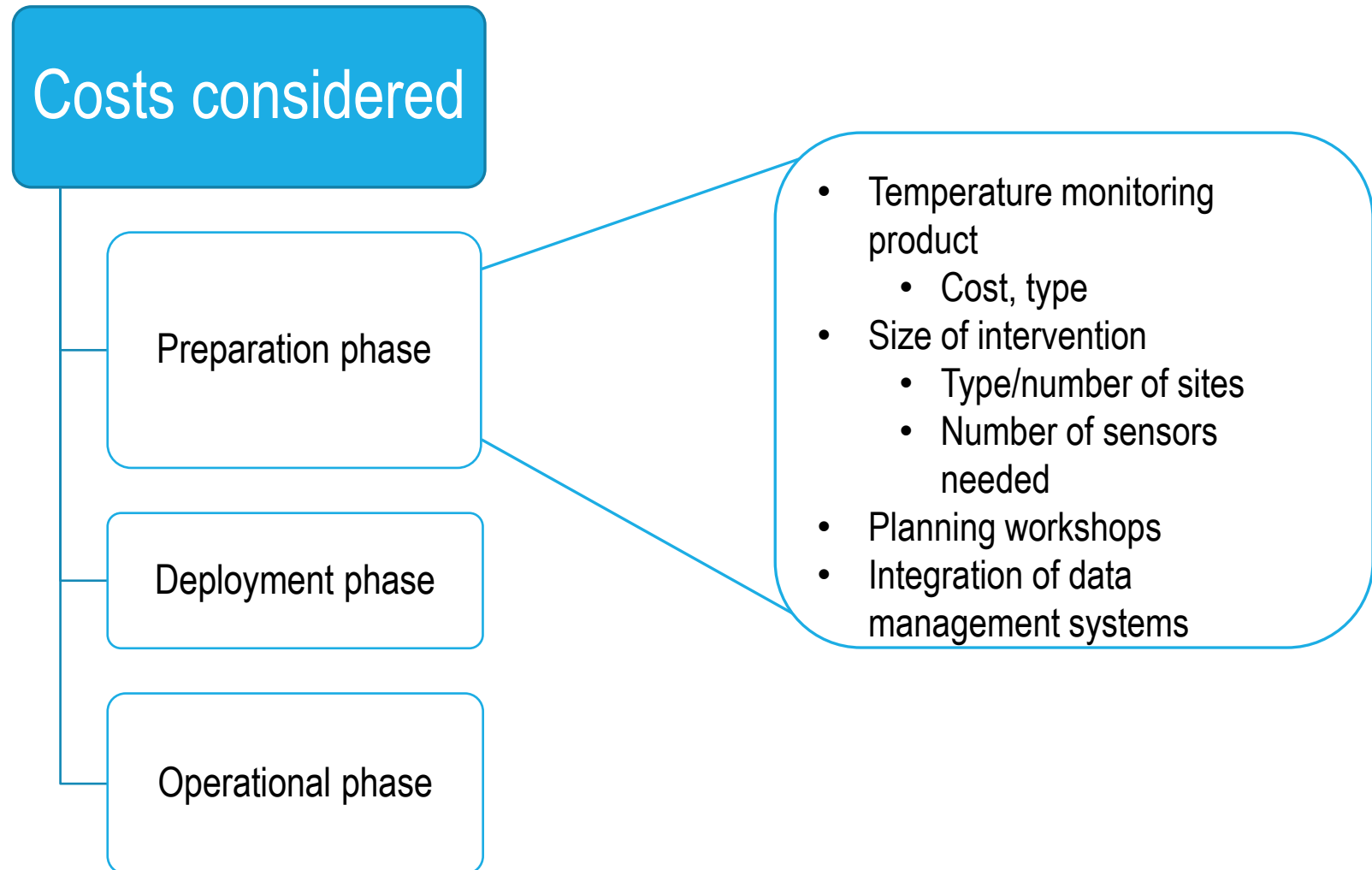


The tool provides users with information to understand the different functions and potential benefits of each type of system as well as information on products they should consider.

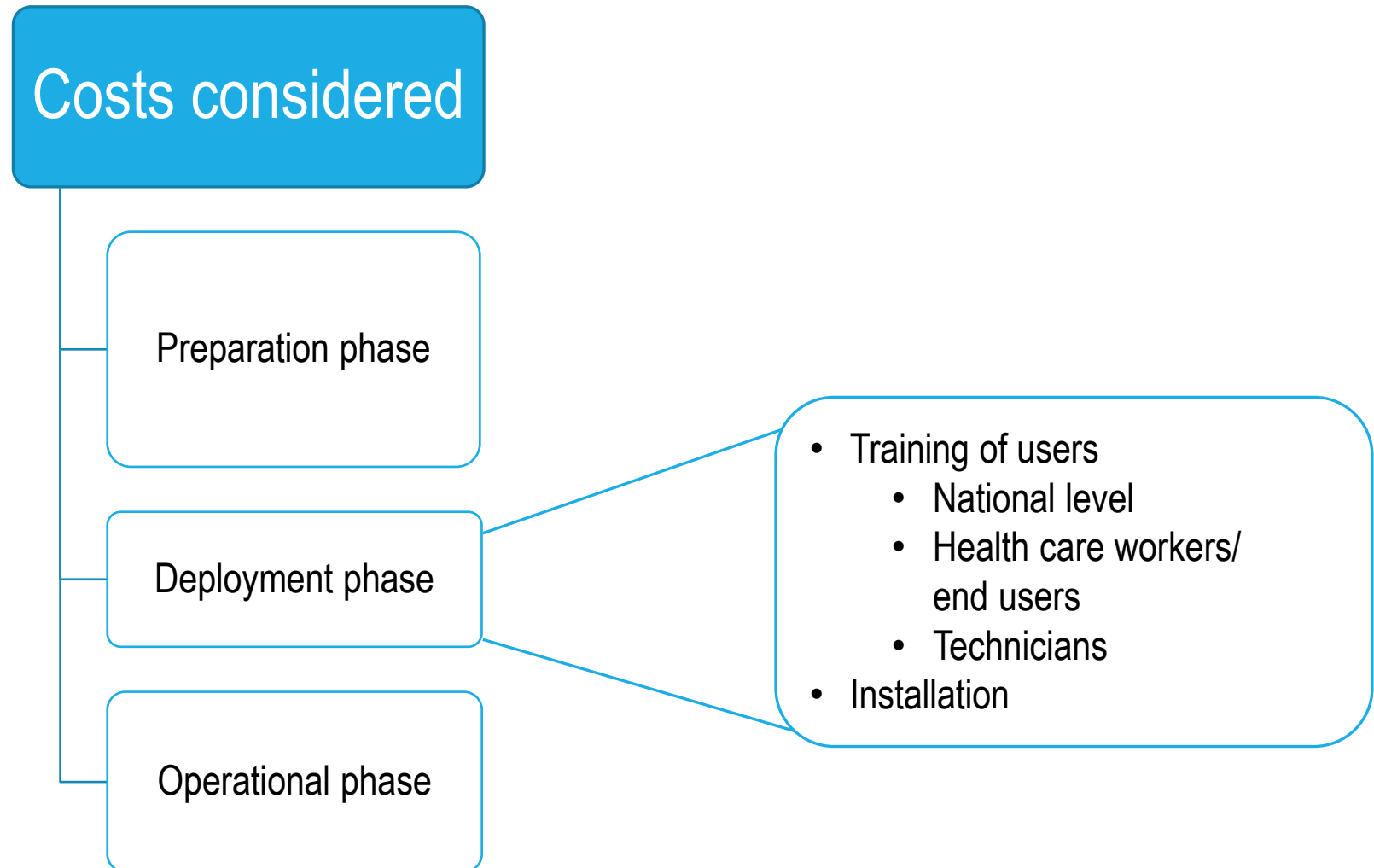
# Steps to populate the tool



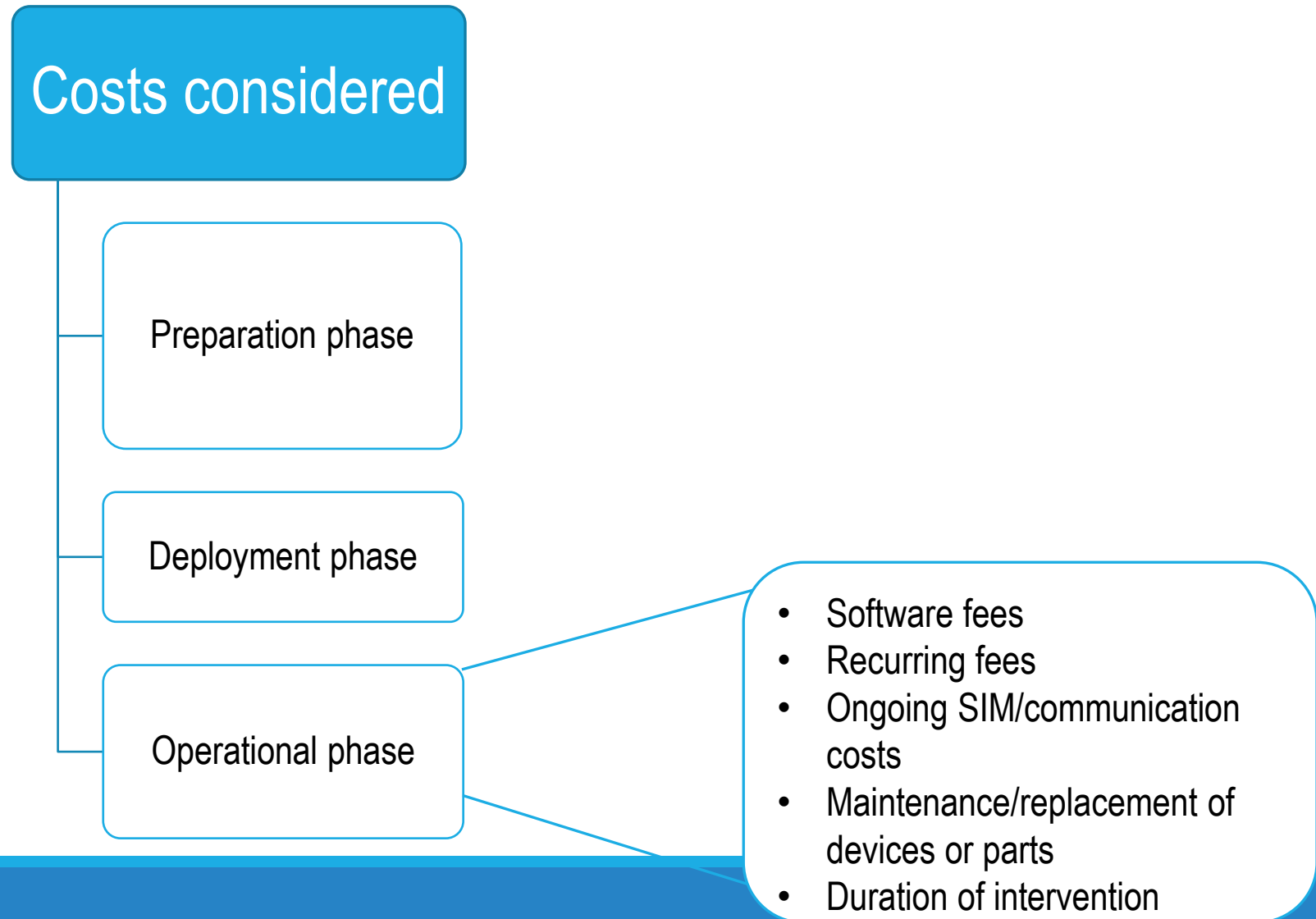
First, the tool asks users to configure setting-specific costs



First, the tool asks users to configure setting-specific costs



First, the tool asks users to configure setting-specific costs



# Background on the benefits estimator

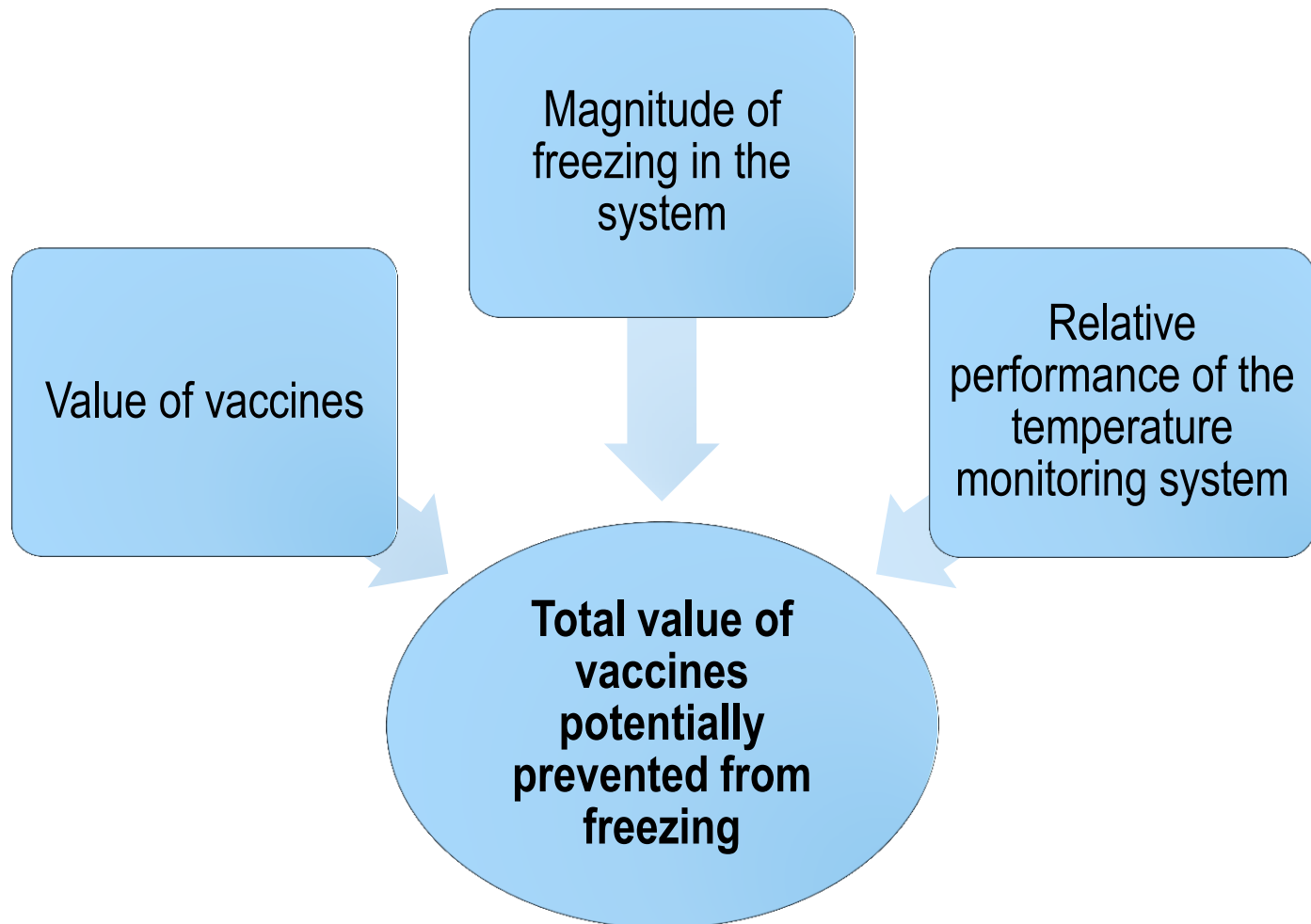
Vaccine vial monitors provide a reliable vial-level indicator to alert health workers on whether vaccines have been exposed to heat.

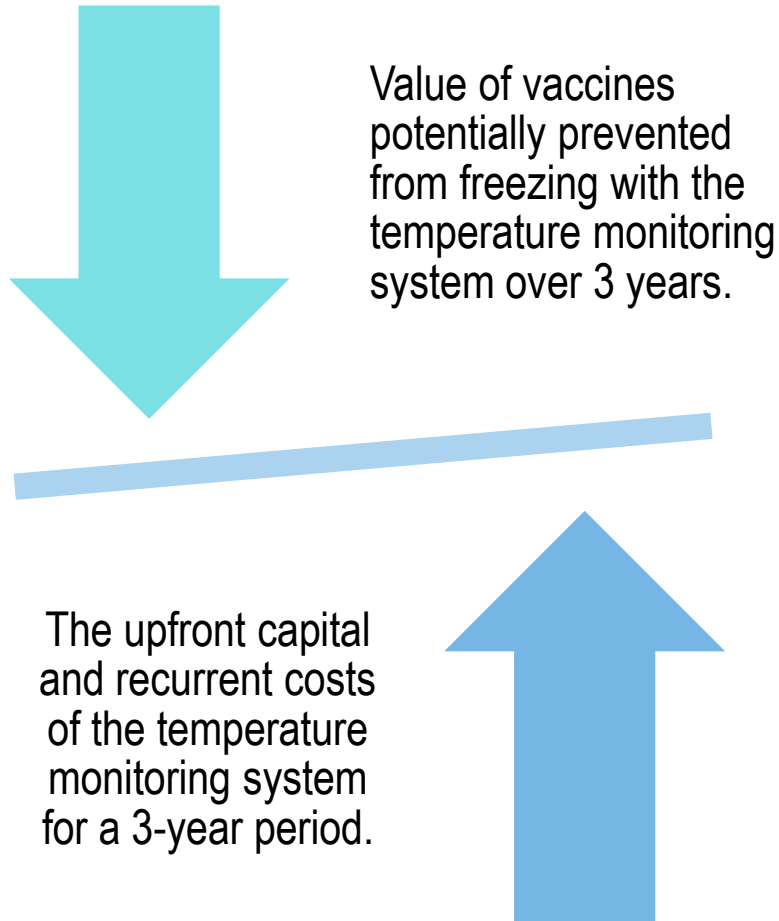
However, the exposure of vaccines to freezing temperatures is harder to detect.

Therefore, we focus on the benefits of continuous temperature monitoring as measured by the potential of the temperature monitoring system to detect and prevent/reduce the incidence of freezing temperatures in the cold chain.



User has to input country-specific information to enable the estimation of the benefits of the temperature monitoring system





***Investment decision criteria:***  
**Not a good investment if benefit / cost ratio < 1**  
**It is a good investment if benefit / cost ratio  $\geq$  1**

- Scenarios analyses for benefits / cost ratio
  - The user of the tool can explore the impact of changing the percent of facilities with freezing events in a given month.

We acknowledge and thank the team members involved in the development of the tool.

- Tara Banani @ CHAI
- Mercy Mvundura @ PATH
- Benjamin Schreiber @ UNICEF
- Wendy Prosser @ VillageReach

*We also thank colleagues who provided specific data for use in the tool*

If you have any questions about the tool or are interested in a more detailed introduction, please reach out to:

Tara Banani: [tbanani@clintonhealthaccess.org](mailto:tbanani@clintonhealthaccess.org)

Mercy Mvundura: [mmvundura@path.org](mailto:mmvundura@path.org)