

FACTORS ASSOCIATED WITH THE FUNDING GAP BETWEEN THE FULL ECONOMIC DELIVERY COSTS AND THE FULL FISCAL DELIVERY COSTS OF THE ROUTINE EPI IN VIETNAM

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INTRODUCTION

Accurate cost data is needed to ensure adequate financing to achieve high coverage of vaccines offered as part of the National Expanded Program on Immunization (NEPI). A costing study was done as a first step in estimating the correct, complete calculation for the package of immunization services. Here we analyze the difference between full economic (adjusted fiscal cost based on Ministry of Finance (MOF) cost norms) and fiscal delivery costs (actual spending) of EPI at the sub-national levels in Vietnam.

METHODS

- Ingredients-based, retrospective economic and fiscal costing of routine activities of EPI in 2017
- Includes sub-national levels: provincial, district and facility
- Sample includes provinces (9), urban (10) and rural (13) districts, and urban (11) and rural (26) facilities
- Analysis: Funding gap = Economic costs – fiscal costs.
- Performed multilevel regression to determine factors associated with the funding gap.

RESULTS

- Total funding gap was US\$7.4 million. The largest gaps are at district and facility levels (Figure 3).
- By line item, volunteer labor and per diem contributed the most to funding gap, at 35% and 27% respectively (Figure 1).
- By activity, the largest contributing items were routine facility-based delivery, supervision, and vaccine storage & supply (Figure 2).
- Factors significantly associated with funding gap were: storage at province level, waste management at district level, and number of full time equivalent staff at facility level (Table 1).

Vietnam may need to provide an additional US\$7.4 million per year to cover sub-national EPI economic costs. Incremental funding is needed for:

- Vaccine and supply storage at province level;
- Waste management at district level;
- Staff at facility level.



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Figure 1. Composition of the total funding gap to full costs, by line item

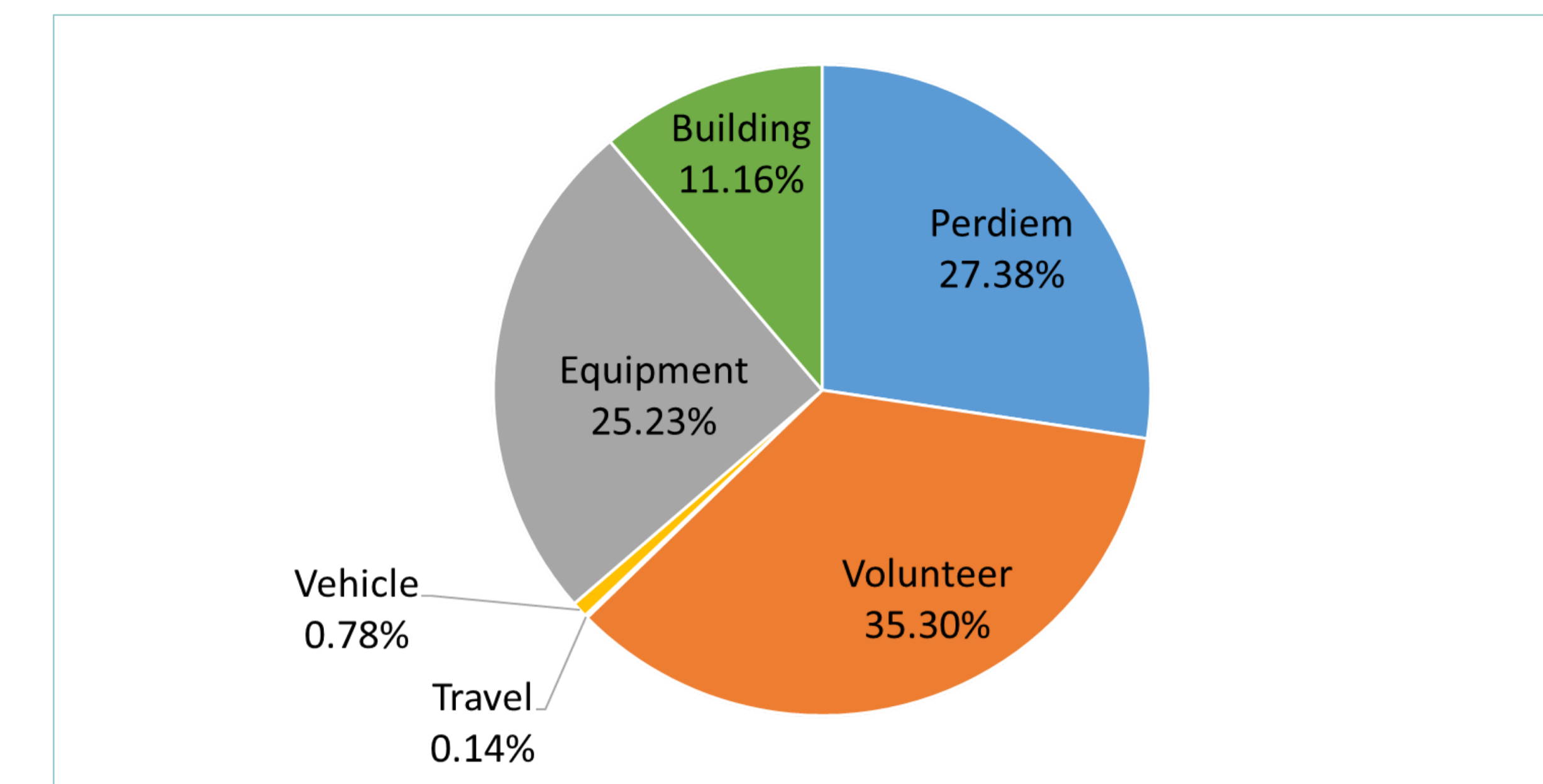


Figure 2. Actual spending and full delivery costs by activity

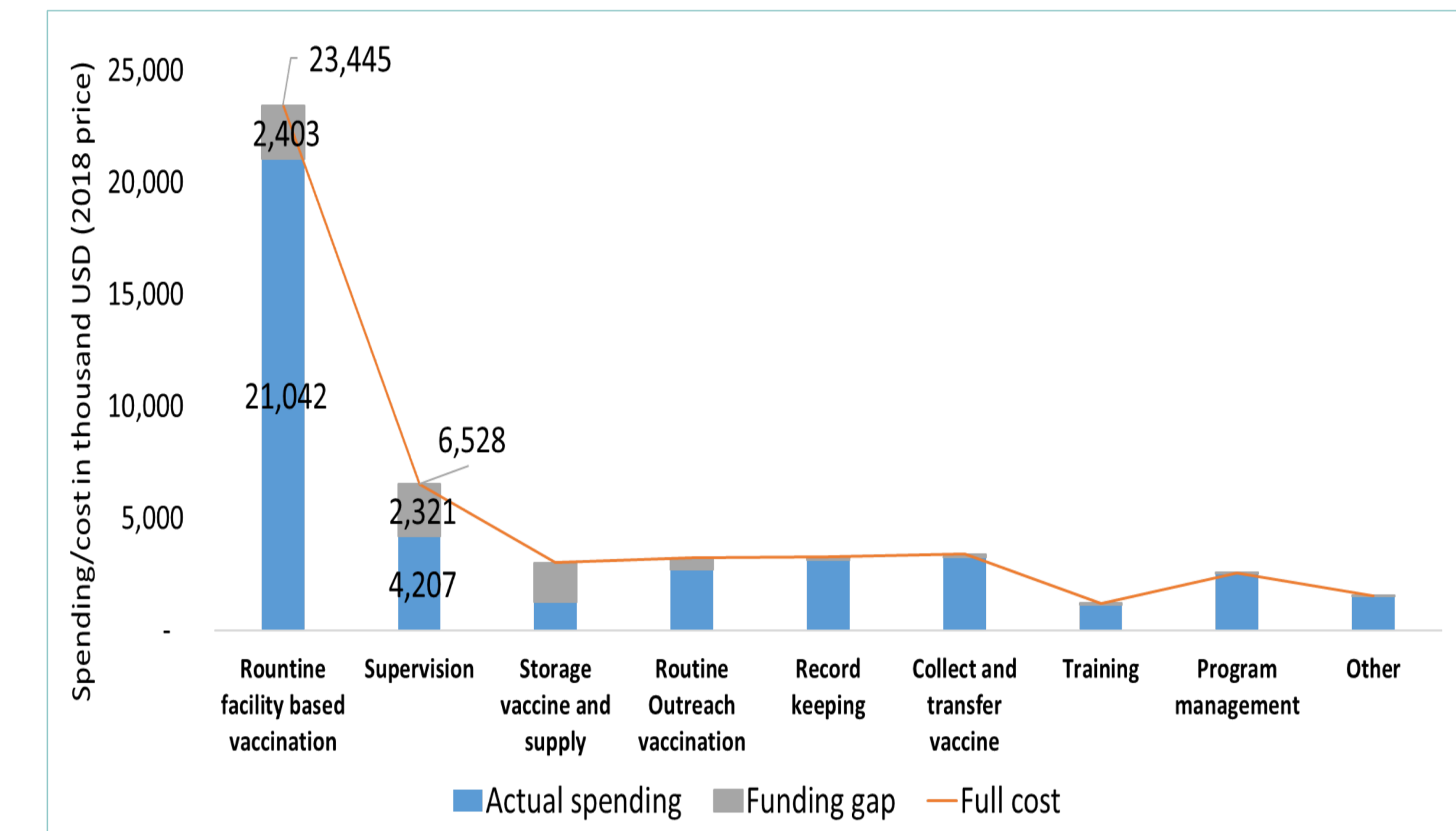


Figure 3. Aggregation of spending/cost

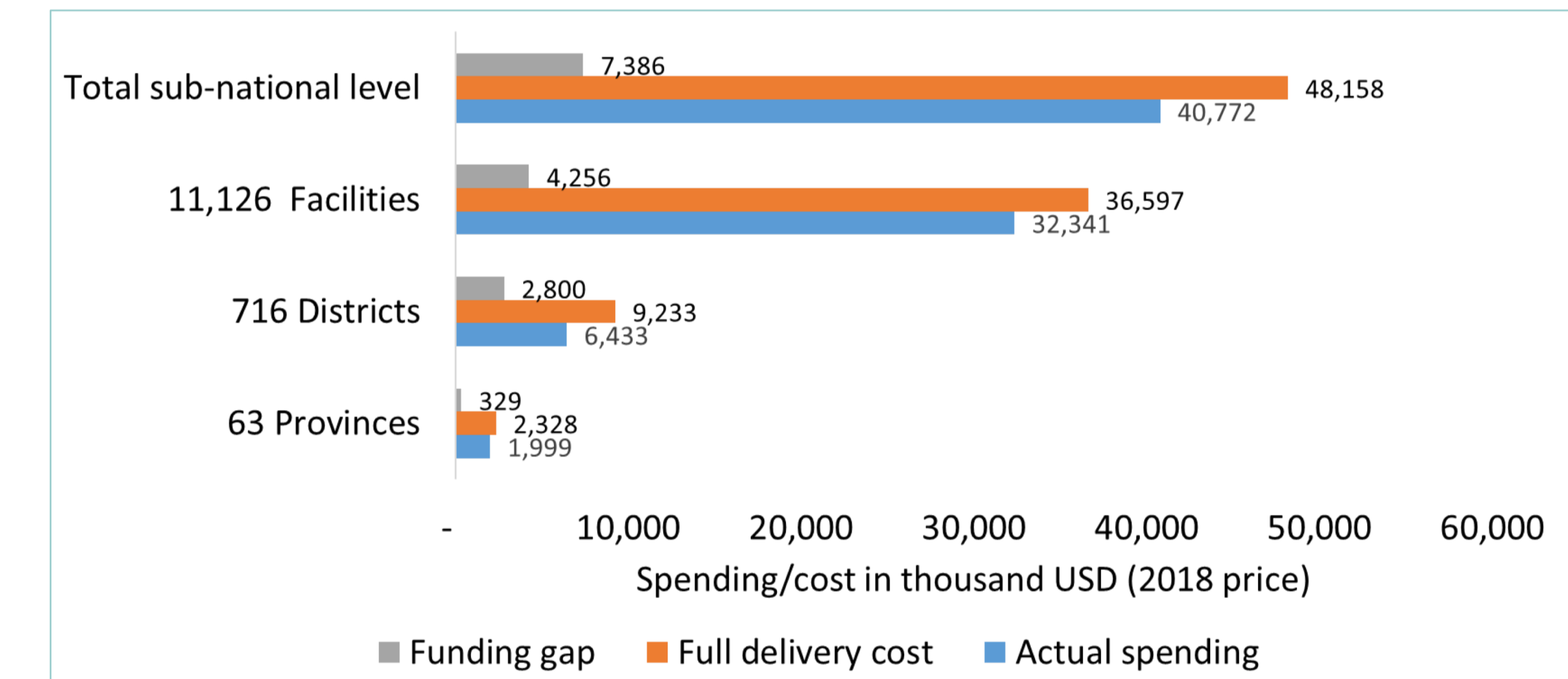


Table 1. Multilevel linear regression results

Multilevel linear regression	
Weighted Funding gap	Coef.
<i>For National level</i>	
Storage vaccine and supply	-0.888
<i>For District level</i>	
Full time equivalent staff	2276
Storage vaccine and supply	-3.548
Waste management	-40.539
Record keeping	-0.879
%Funding gap variation explain by province level	0.690
<i>For facility level</i>	
Full time equivalent staff	-208.704
Program management	-0.643
%Funding gap variation explained by district level	15.801%
%Funding gap variation explain by province level	16.047%