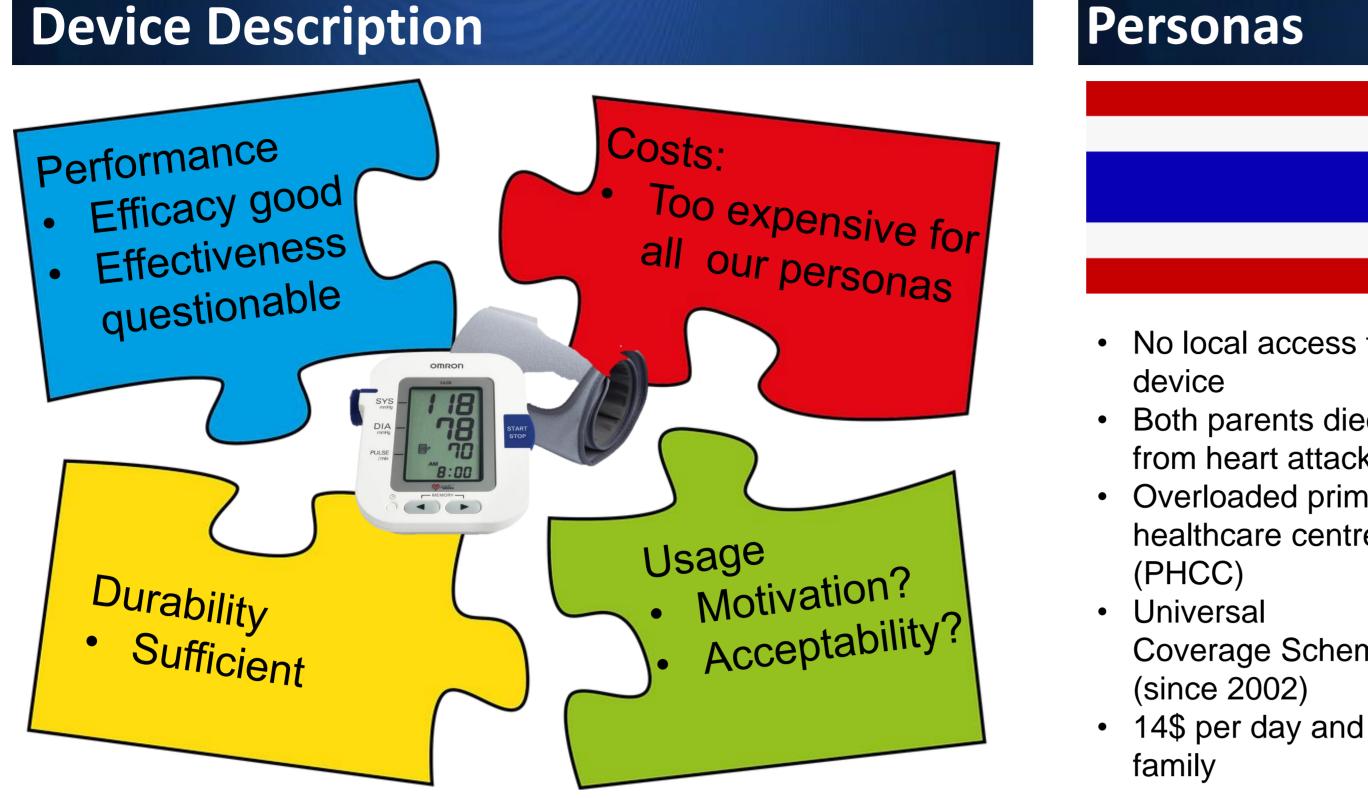
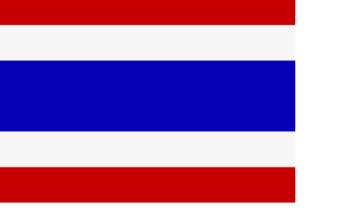
Improving Accessibility of Blood Pressure Monitors in Low- and Middle-Income Rural Areas

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Personas



- No local access to device
- Both parents died from heart attack
- Overloaded primary healthcare centre
- (PHCC)
- Universal Coverage Scheme (since 2002)

• No local access to

Prehypertension

to medication

• 3.4\$ per day and

• Rather low access

device

• Insurance

family

- - No local access to device
 - Need for daily monitoring
 - Overloaded and far PHCC
 - No general health
 - insurance
 - 1\$ per day and family
- - local access to device in
 - pharmacy
 - Cardiovascular disease
 - Low access for medication
 - No general health
 - insurance
 - 1\$ per day and family

Problem Statement

Essential Needs

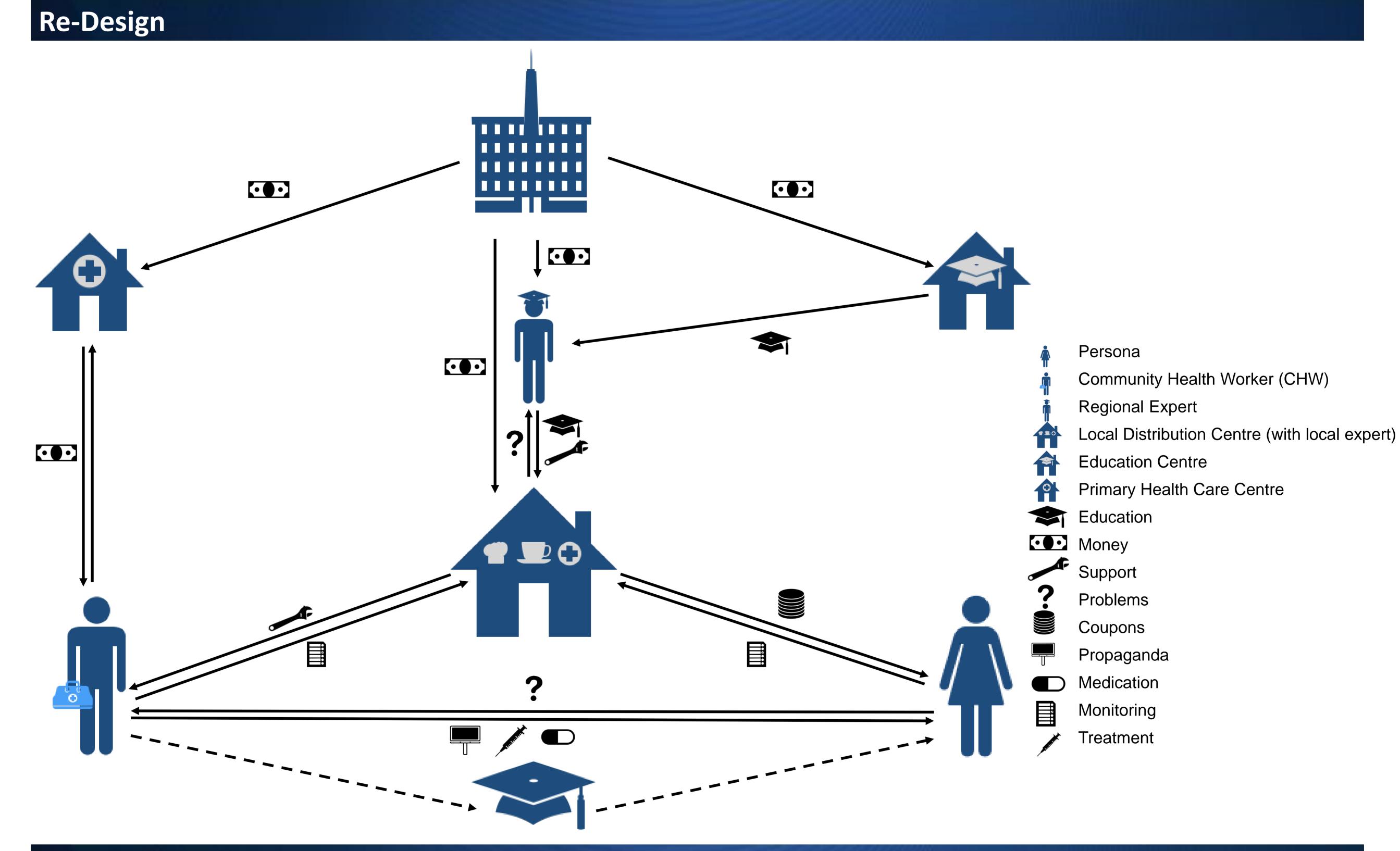
- Access to accurate blood pressure \bullet monitoring
- Lower cost of ownership \bullet

Main Challenges

- Motivation for monitoring blood pressure lacksquare
- Access to treatment and medication \bullet (overloaded and far away PHCC)

Opportunities for re-design

- Making the device accessible and affordable
- Decentralization of PHCC lacksquare



Appropriateness Evaluation

General	Thailand	Peru	Uganda	Tanzania
 Effectiveness of CHW 	 Access in local sho 	op ✓ Access in local	✓ Access in local shop	✓ Access in local shop
 Lower cost of ownership 	 Lower cost for 	community kitchen	 No coverage of 	- No coverage of

- ✓ Relief of PHCC
- ✓ Enhanced CHW-persona interaction
- \checkmark Incentive for healthy nutrition
- ✓ Sustainable knowledge generation
- Durability might be low
- universal coverage Only partial coverage of scheme
- Medication might be more attractive than general Insurance healthy nutrition
- medication costs medication cost by
- medication costs: high prices and low access
- Medication: "Out-ofpocket" purchase

References

[1] Abdel-All M, Putica B, Praveen D, et al. Effectiveness of community health worker training programmes for cardiovascular disease management in low-income and middle income countries: a systematic review. BMJ Open 2017;7

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[3] Paek, S.C., N. Meemon, and T.T. Wan, Thailand's universal coverage scheme and its impact on health-seeking behavior. Springerplus, 2016. 5(1): p. 1952.



Appropriate Health System Design FS 2018

