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DATE OF DISPUTATION: 23rd of May 2019

DISSERTATION TITLE: *Scaling ICT4D Sustainably: A Naturalistic
Inquiry of District Health Information Software
(DHIS)2*

Sustainable scaling strategies are needed to ensure that local ICT for Development (ICT4D) implementations can outlive the vacuum that arises when such projects are successfully scaled and the attention of developers and funders is redirected elsewhere. The dissertation captures a 4-year research study that has sought to understand what strategies would enable global ICT4D solutions to scale in a locally sustainable way. Findings from this study are discussed over a series of 5 papers that shed light on the challenges of sustaining local implementations once ICT4D solutions scale and ways in which they may continue to be developed over time. This study contributes with a so called 'two-way bootstrapping strategy' which may be used by ICT4D implementers and researchers to understand how to design for sustainable dynamics of scale.