

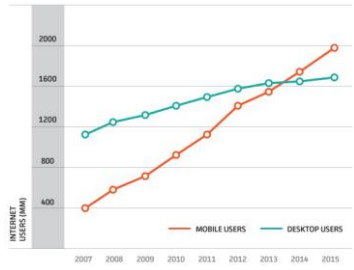
MoWebA Mobile

Modeling and Generation of the Network Communication of Mobile
Apps with their Functions in the Cloud

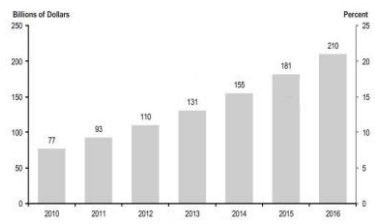
Motivation

Mobile Apps Popularity – Public Cloud Services Growth

Global Mobile vs. Desktop Internet User Projection source: Morgan Stanley Research



Public Cloud Services Market and Annual Growth Rate, 2010-2016



Source: Gartner (February 2013)



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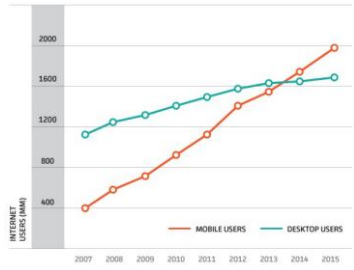


Google Cloud Platform

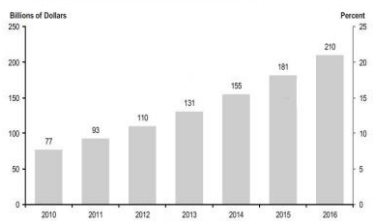
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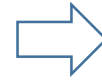
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Google Cloud Platform



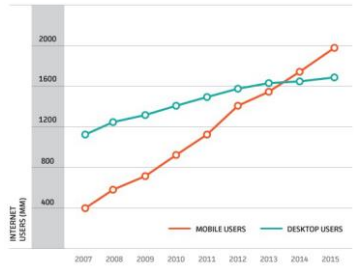
Mobile Apps with Functions in the Cloud



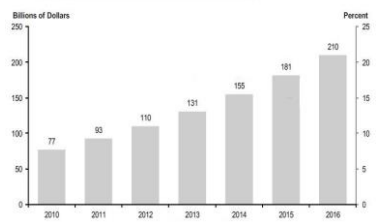
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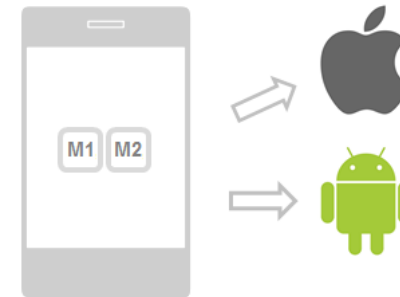
Google Cloud Platform



Mobile Apps with Functions in the Cloud

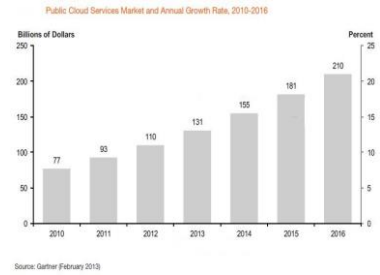
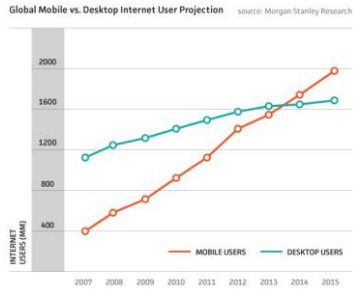


Portability Challenge



Motivation

Mobile Apps Popularity – Public Cloud Services Growth



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Google Cloud Platform



Mobile Apps with Functions in the Cloud



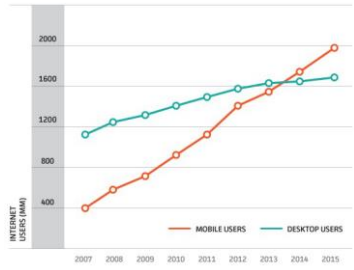
Portability Challenge



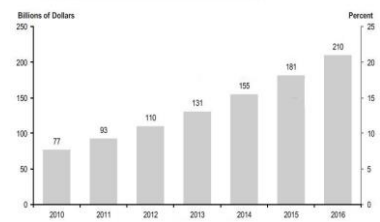
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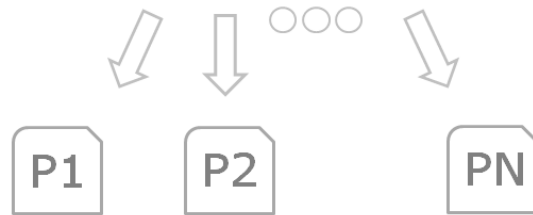


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Google Cloud Platform

Model Driven Development

Modelos Independientes de Plataforma - PIM



Mobile Apps with Functions in the Cloud



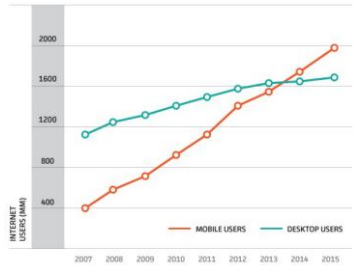
Portability Challenge



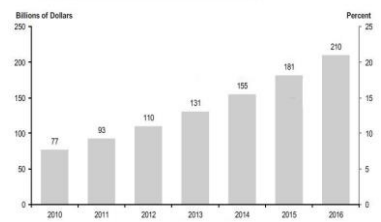
A solution

Mobile Apps Popularity – Public Cloud Services Growth

Global Mobile vs. Desktop Internet User Projection source: Morgan Stanley Research



Public Cloud Services Market and Annual Growth Rate, 2010-2016



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Mobile Apps with Functions in the Cloud

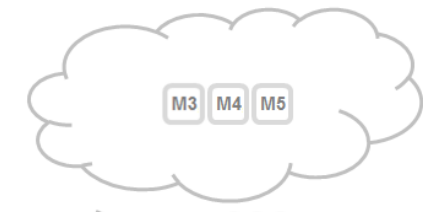


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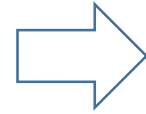


Portability Challenge



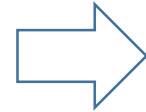
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A solution



Network Communication

Contribution regarding the State of the Art



Network Communication

- A graphic modeling language based on a standard, UML
- A unified modeling for the generation of code for mobile and cloud applications
- Generation of native mobile application code
- Generation opensource cloud application code

Thanks