

I App Developer

Gastcollege R&DI 2-2-2011
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<http://www.cs.ru.nl/~baslijns/>

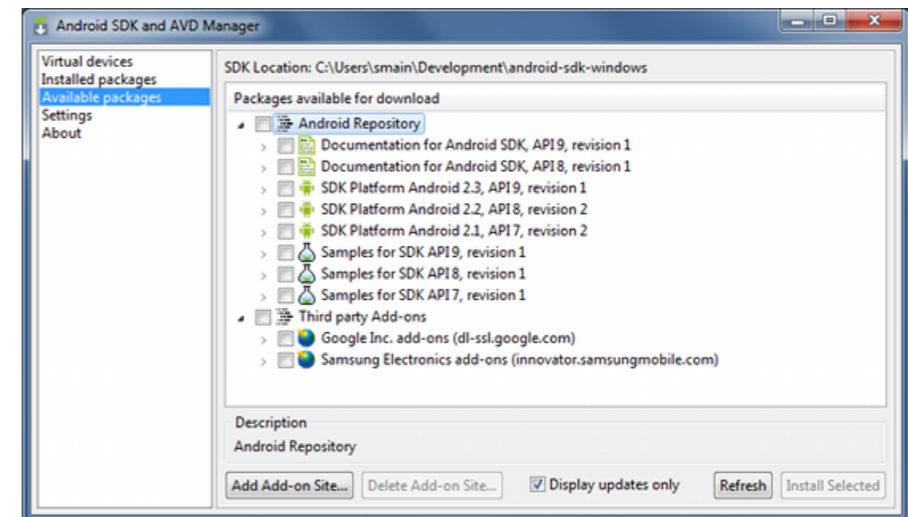
1



smartphones

2 **aerial**
experiences

3 developing apps





smartphones



2001



850Mhz
256MB RAM

2011



1 Ghz
576MB RAM

- ✓ 3G Always online network
- ✓ Camera
- ✓ GPS
- ✓ Accelerometers
- ✓ Bluetooth

symbian
OS



 Windows
Phone
7 Series

iOS 4.2



***“Android-invasie verdringt Nokia
als favoriete smartphone”***

nrc.nl 31-1-2011

Worldwide smart phone market					
Market shares Q4 2010, Q4 2009					
OS vendor	Q4 2010 shipments (millions)	% share	Q4 2009 shipments (millions)	% share	Growth Q4'10/Q4'09
Total	101.2	100.0%	53.7	100.0%	88.6%
Google*	33.3	32.9%	4.7	8.7%	615.1%
Nokia	31.0	30.6%	23.9	44.4%	30.0%
Apple	16.2	16.0%	8.7	16.3%	85.9%
RIM	14.6	14.4%	10.7	20.0%	36.0%
Microsoft	3.1	3.1%	3.9	7.2%	-20.3%
Others	3.0	2.9%	1.8	3.4%	64.8%

*Note: The Google numbers in this table relate to Android, as well as the OMS and Tapas platform variants
Source: Canalys estimates, © Canalys 2011

33%

aerial

research experience

Goal

Develop an intelligent home care system for COPD patients to predict exacerbations early

System requirements

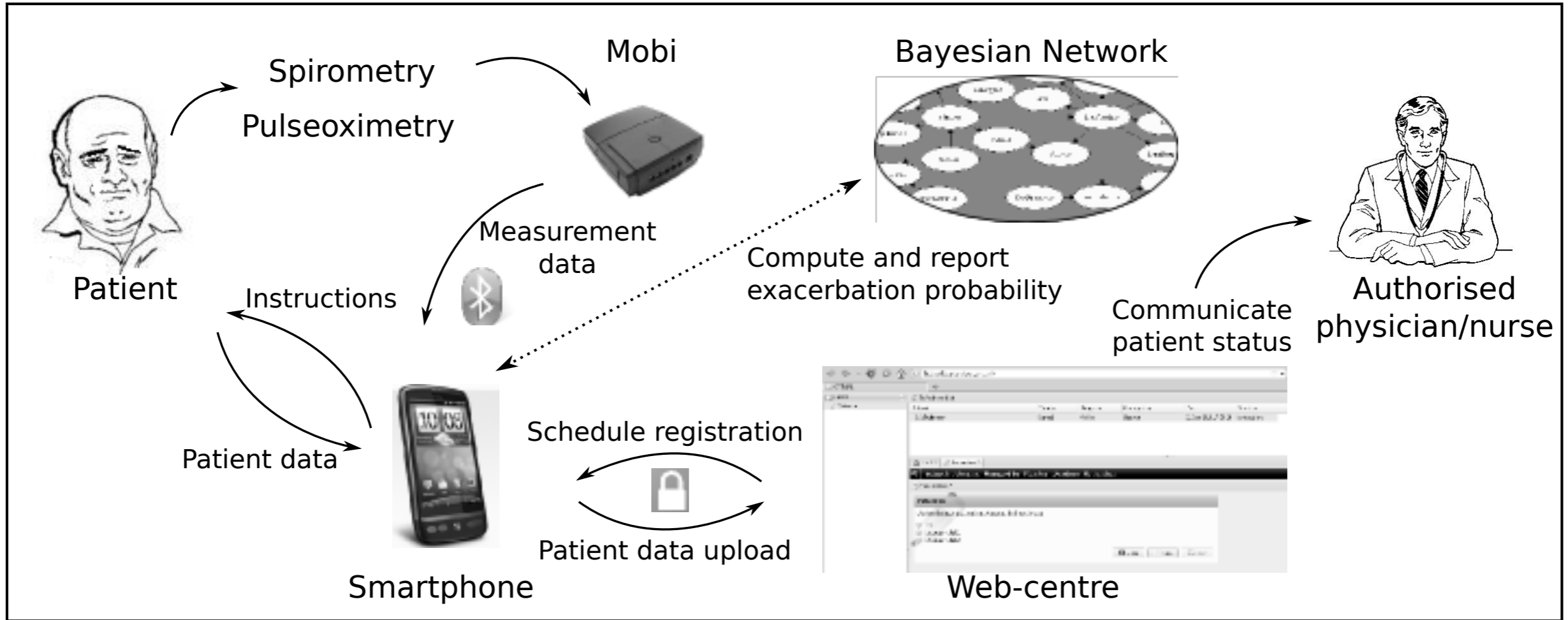
- ✓ Completely mobile system
- ✓ Interface with sensors
- ✓ Synchronize with central system
- ✓ If possible diagnose
- ✓ Get attention from user

Idea #1



Idea #2







htc

AERIAL
MODI 1

Spirometer
Pressure sensor
Prototype 1
95-C520-0000-0-1

demo



developing android apps

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SDK

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Developer Announcements



We're pleased to announce that paid apps are available in more locations of the world! Developers from 20 more locations can now sell paid apps on Android Market. Users in more



Download

The Android SDK has the tools, sample code, and docs you need to create great apps.

[Learn more »](#)

developer.android.com



Android 2.3 is now available for the Android SDK. In addition, new tools and documentation are available, plus a new NDK that offers more than ever. For more information about what's in Android 2.3, read the [version notes](#).

If you have an existing SDK, add Android 2.3 as an [SDK component](#). If you're new to Android, install the [SDK starter package](#).



Contribute

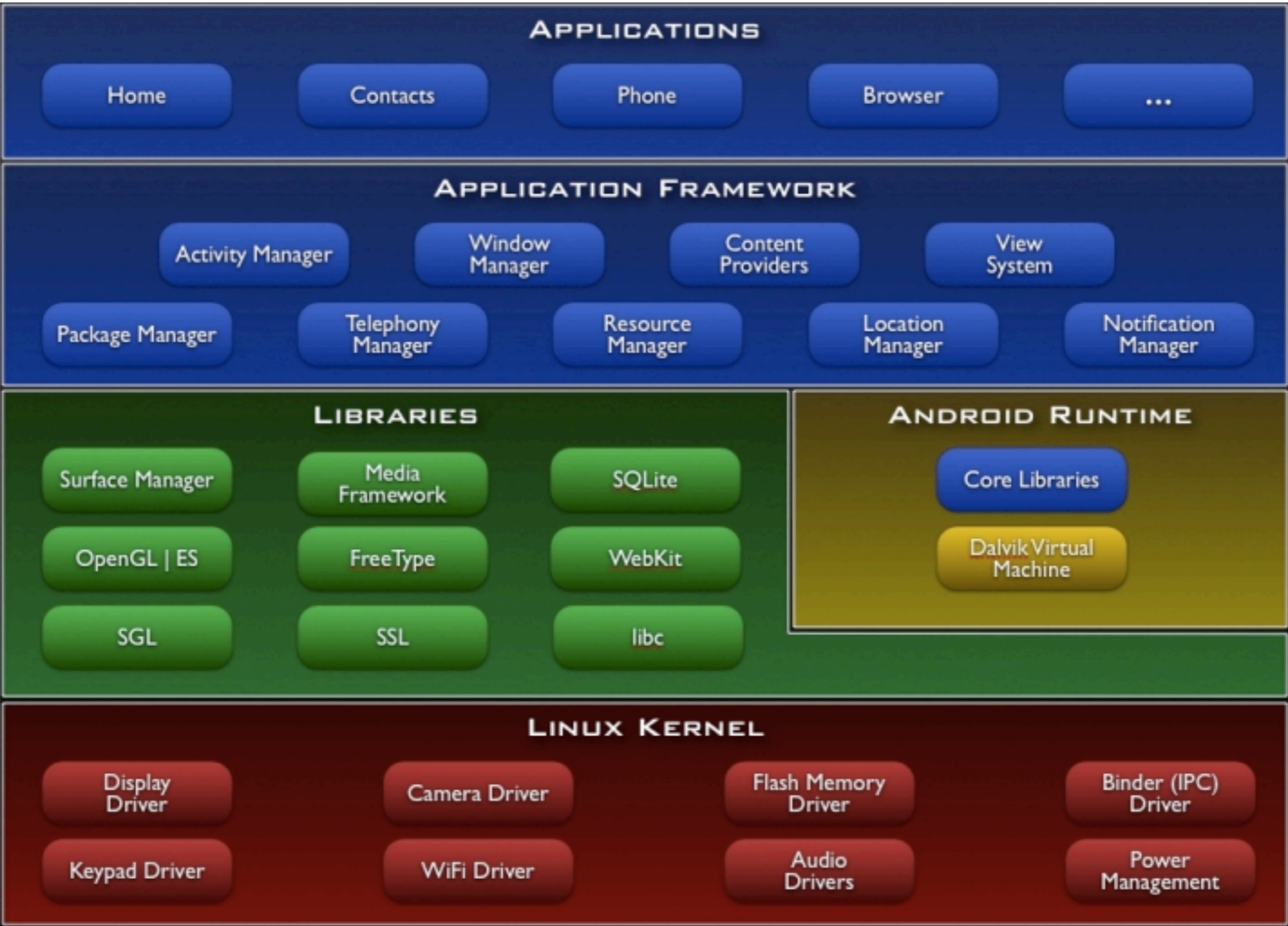
Android Open Source Project gives you access to the entire platform source.

[Learn more »](#)



Target Devices

The Device Dashboard provides information about deployed Android devices to help you target suitable device configurations as you build and update your apps.



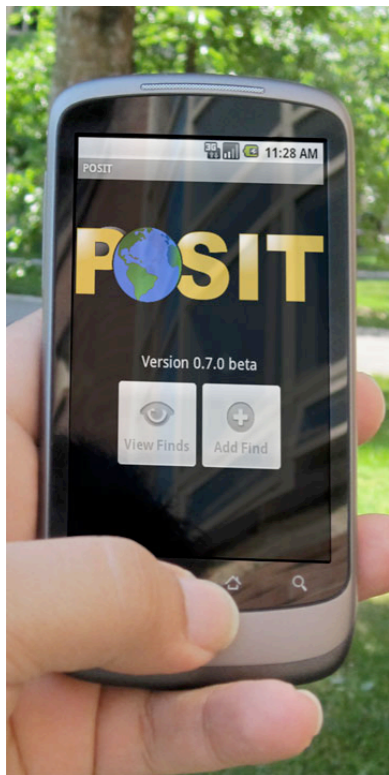
Core concepts

- Activities (what you can do)
- Services (what you can use)
- Intents (how to communicate)
- Content providers (where to put stuff)
- Broadcast Receivers (know what happens)

The mandatory...

Hello World

Inspiration



www.posit-project.org

Live Response

www.liveresponse.se

e-MomCare

www.stitpro.nl/projecten/lopende-projecten/monitoring/

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