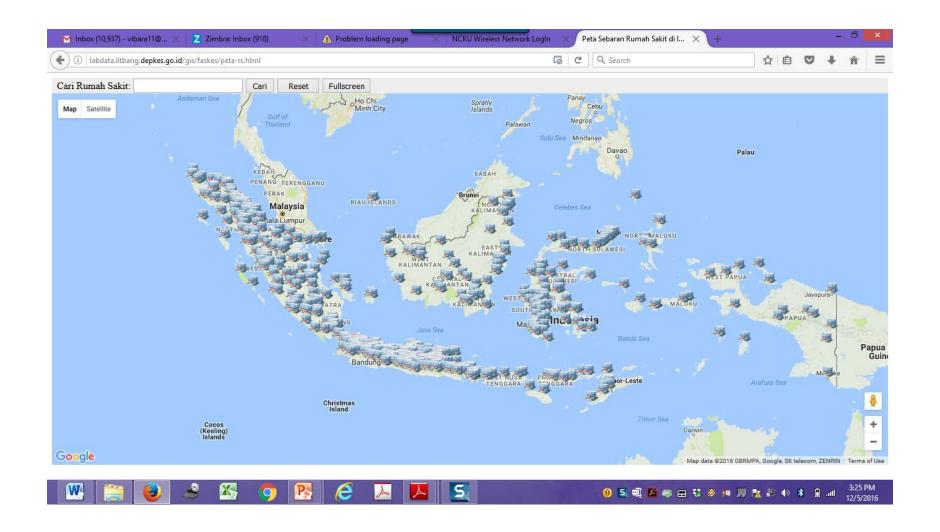
Community-based Health Information Systems: Indonesian Case Studies

Vitri Tundjungsari YARSI University IT Department Jakarta, Indonesia

Distribution of Hospitals in Indonesia



Community-based Health-care in Indonesia

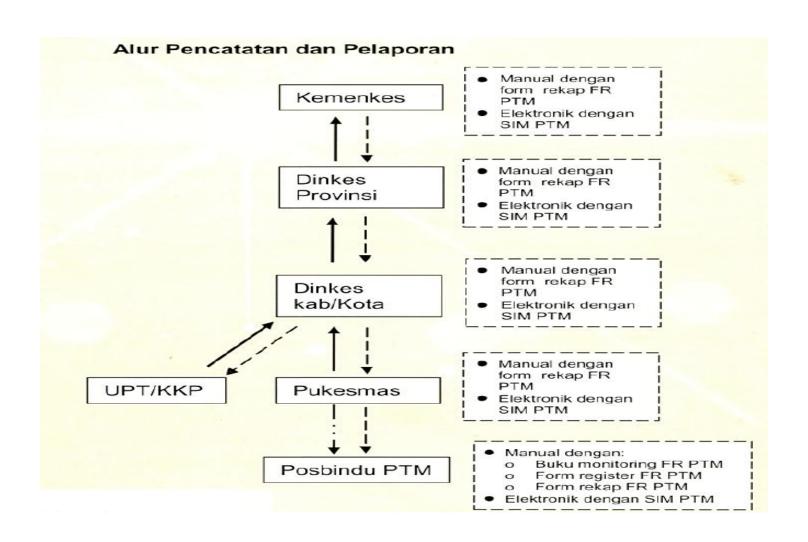
Community-based Health-care in Indonesia (conducted by Ministry of Health- Republic of Indonesia):

- Posyandu: Integrated maternal and child health-care community service center
- Posbindu: Integrated health-care community service center (i.e. non-communicable disease, for elderly)

Posbindu



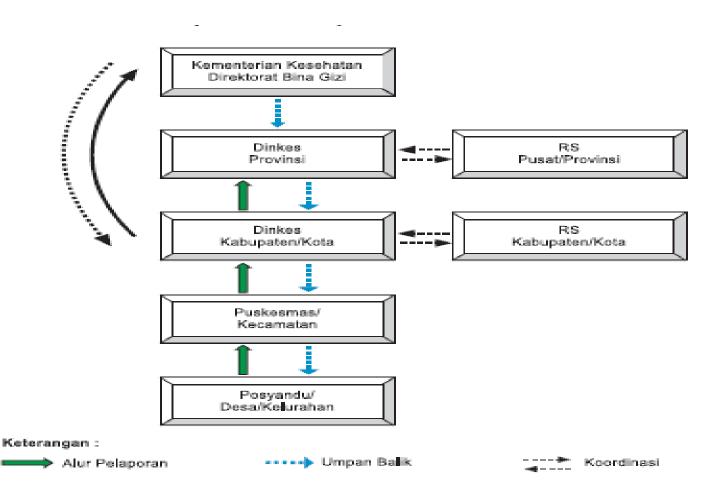
Data and information flows



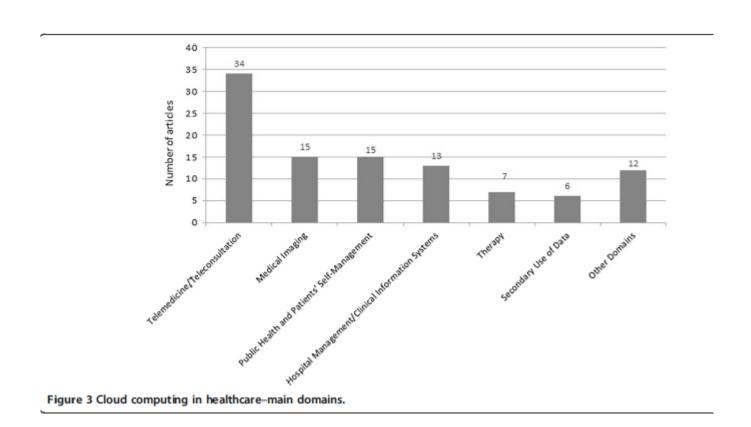
Posyandu



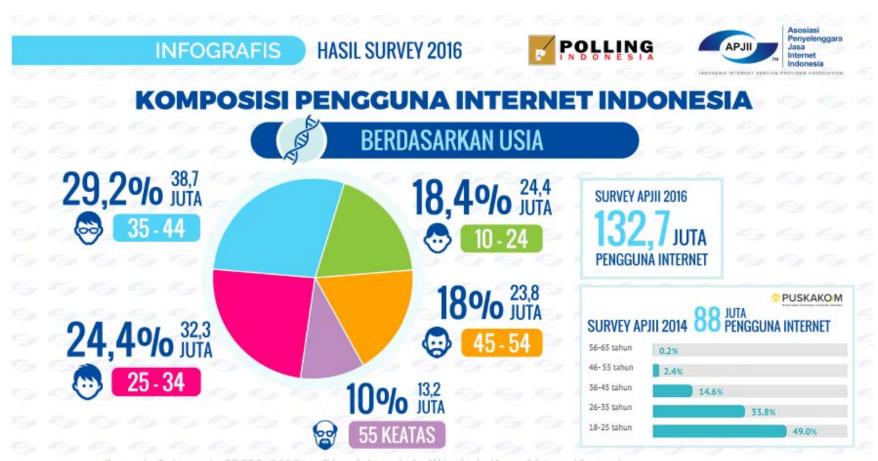
Data and information flows



Cloud computing in Healthcare main domain (Griebel et al., 2015)



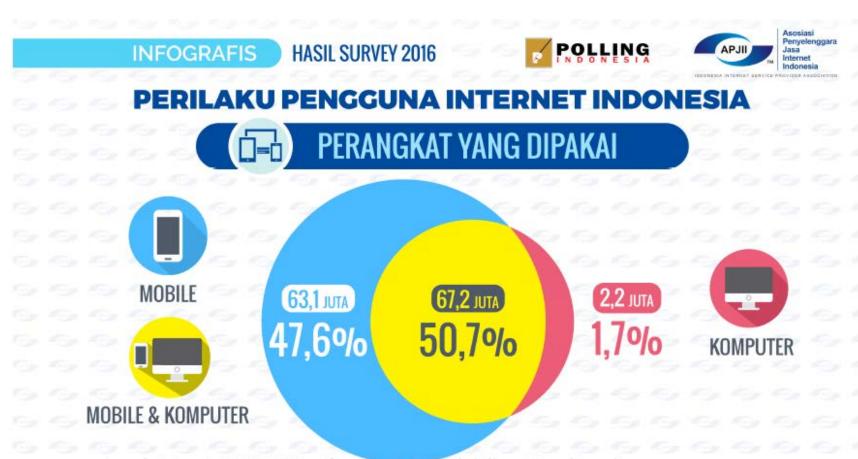
Internet users' composition in Indonesia



Survei Internet APJII 2016 - Diunduh untuk Vitri (vibarall@gmail.com)

November 2016, Hasil survey terbitan sebelumnya mohon diabaikan. Untuk hasil survey lebih mendalam silakan email ke survei@apjii.or.id | Copyright @ APJII 2016. Halaman 7 dari

Internet users' behavior in Indonesia



Survei Internet APJII 2016 - Diunduh um ac vitri (vibarall@gmail.com).

Diterbitkan November 2016. Hasil survey terbitan sebelumnya mohon diabaikan. Untuk hasil survey lebih mendalam silakan email ke survei@apjii.or.id | Copyright @ APJII 2016.

12010.

lalaman 16 dari 34

Internet Users in Indonesia

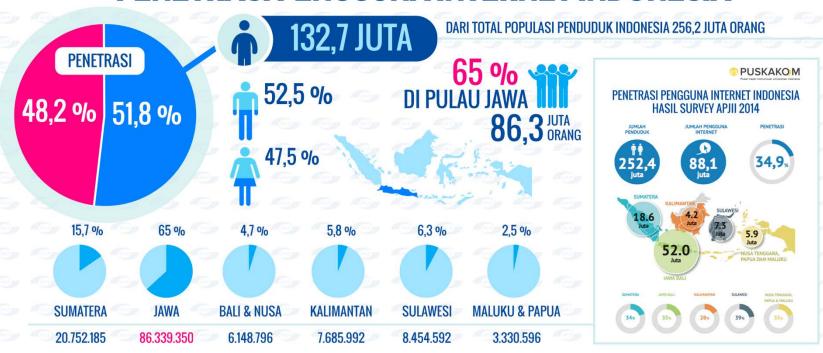
INFOGRAFIS

HASIL SURVEY 2016





PENETRASI PENGGUNA INTERNET INDONESIA

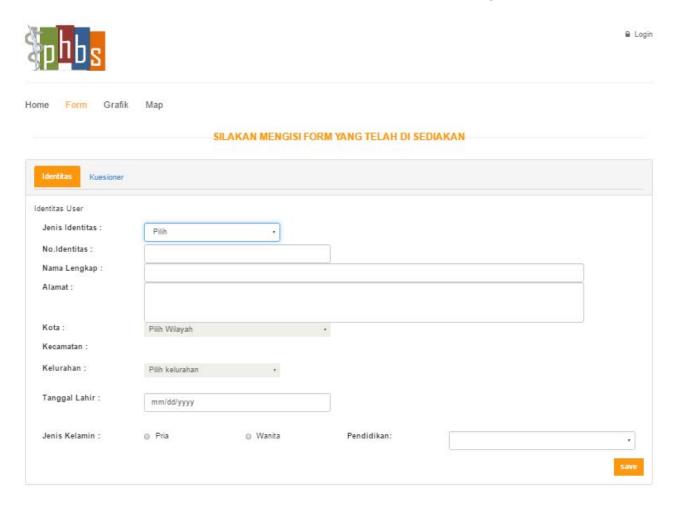


Diterbitkan November 2016. Hasil survey terbitan sebelumnya mohon diabaikan. Untuk hasil survey lebih mendalam silakan email ke survei@apjii.or.id | Copyright @ APJII 2016.

Indonesia's Health Public Reports (Riskesdas, 2013)

- Indonesian's clean and health behaviour (lifestyle)/PHBS national rate is 38.7% (Good criteria is 32.3%). The highest is DKI Jakarta (56.8%) and the lowest is Papua (16.4%). There are 20 of 33 provinces with PHBS under national standard percentage.
- The mortality caused by cardiovascular disease increases each year in Indonesia (number 5 in 2000 and recently number 1 in 2014).
- Indonesian's smoking behaviour 15 y.o and above has higher tendency (from 34.2 % in 2007 rise to 36.3 % in 2013).

Participatory Health and clean behaviour (community-based)





Home Form Map

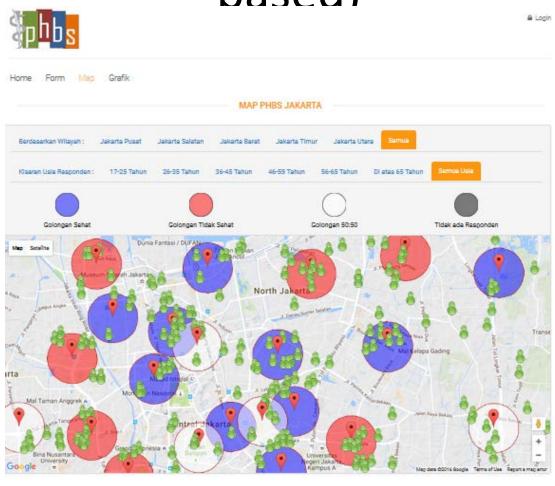
SILAKAN MENGISI KUESIONER YANG TELAH DI SEDIAKAN

Identitas Kuesioner

No. Identitas:

No	Pertanyaan	Jawaban	
1.	Apakah Anda mempunyai Anak/Adik (usia 0-59 bulan) ?	e Ya	0 Tidak
2.	Jika Iya, Saat Anda atau Keluarga Anda melahirkan, Apakah ditolong oleh bidan atau dokter?	⊚ Ya	O Tidak
3.	Anak/Adik Anda yang berusia 0-59 bulan, Apakah melakukan pertimbangan bayi setiap bulannya?	⊚ Ya	O Tidak
4.	Saat Anak/Adik Anda berusia <6 bulan, Apakah diberi ASI saja?	⊚ Ya	O Tidak
5.	Saat Anak/Adik Anda berusia 6-12 bulan, Apakah diberi ASI ekslusif selama 6 bulan? (lewati pertanyaan ini jika anak atau adik anda masih berusia <6 bulan)	© Ya	© Tidak
6.	Apakah anda mencuci tangan dengan air bersih dan sabun saat sebelum makan?	⊚ Ya	© Tidak
7.	Apakah anda mencuci tangan dengan sabun setiapkali tangan kotor (antara lain setelah memegang uang, binatang, berkebun)?	⊚ Ya	O Tidak
8.	Apakah anda mencuci tangan dengan air bersih dan sabun setelah buang air besar atau air kecil?	© Ya	0 Tidak
9.	Ketika buang air besar atau buang air kecil, Apakah rumah Anda memiliki dan menggunakan jamban dengan septic tank (terdiri dari tangki sedimentasi yang kedap air, dimana tinja dan air buangan masuk mengalami dekomposisi)?	© Ya	© Tidak
10.	Apakah Anda melakukan aktivitas fisik (seperti membersihkan rumah, bekerja di kebun, mengendarai sepeda dan lain-lain) selama paling sedikit 10 menit perhari?	© Ya	0 Tidak
11.	Apakah Anda mengonsumsi sayur dan buah tujuh hari dalam seminggu?	⊚ Ya	© Tidak
12.	Apakah anda merokok?	⊚ Ya	© Tidak
13.	Jika Anda merokok, Apakah Anda merokok didalam rumah?	⊚ Ya	© Tidak
14.	Apakah Anda dan keluarga Anda menggunakan Sumber Air Bersih untuk kebutuhan minum, masak, mandi dan mencuci pakaian (dengan kualitas air tidak berwarna, tidak keruh, tidak bau, tidak berbusa dan tidak berasa)?	© Ya	© Tidak
15.	Apakah Anda dan Keluarga Anda menguras bak mandi satu kali atau lebih dalam seminggu?	O Ya	© Tidak

Participatory Health and clean behaviour application (community-based)



Posyandu Reports



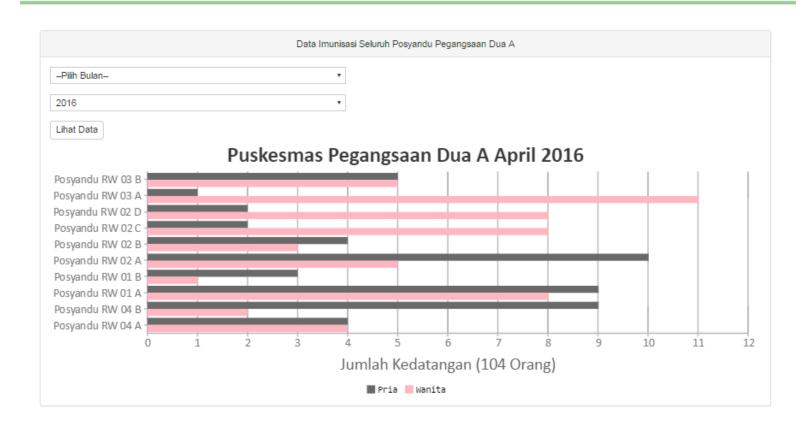
Data Riwayat Balita

Jadwal Imunisas

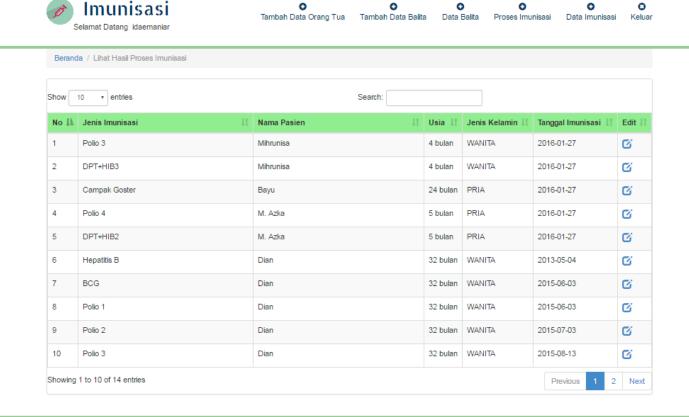
Lihat Data Posyandu

ihat Proses Imunisasi

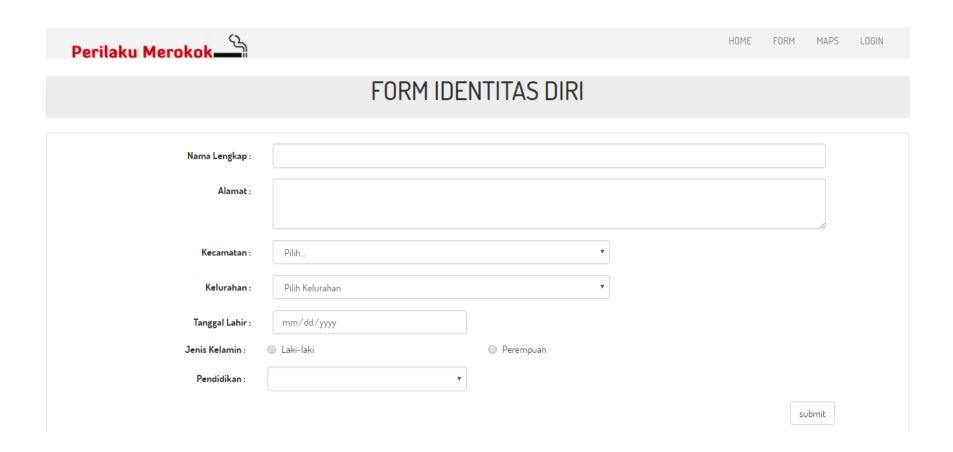
Keluar



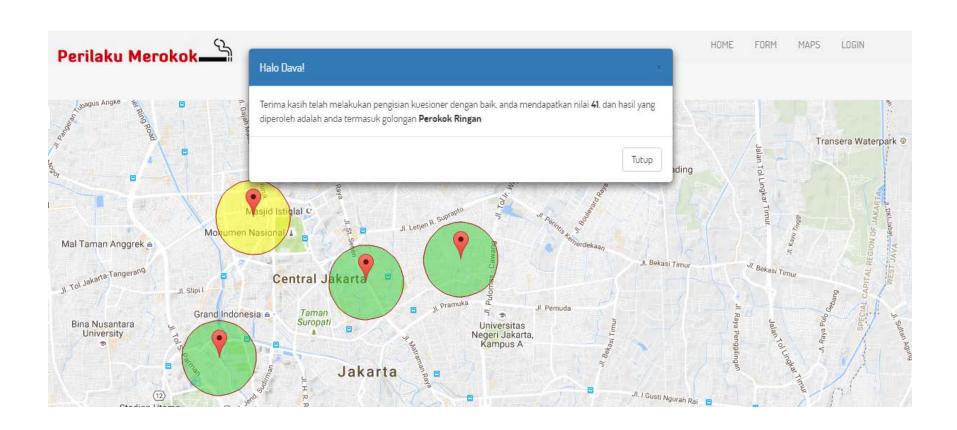
Posyandu Reports



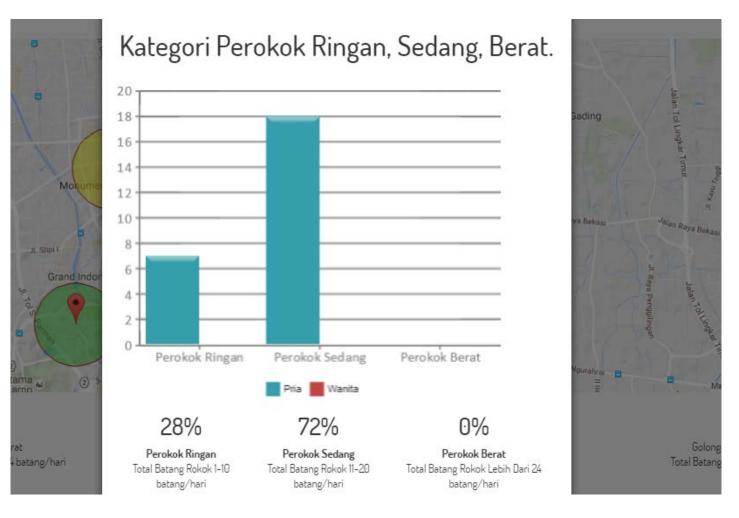
Participatory Smoking behaviour (community/user based)



Smoking behaviour application (community/user based)



Participatory Smoking behaviour application (community/user based)



Challenges

- Cloud computing offers significant benefits to the healthcare sector: doctor's clinics, hospitals, and health clinics require quick access to computing and large storage facilities which are not provided in the traditional settings.
- Healthcare data needs to be shared across various settings and geographies which further burden the healthcare provider and the patient causing significant delay in treatment and loss of time.
- Engaging communities participation to improve public health.

Opportunities

- Collaboration solutions. Remote video conference physician visits, Remote Patients Management, Extending mobile environment for rural telehealth or disaster response is becoming more real with broader wireless broadband and smartphone adoption. Cloud technology supports collaboration and team-based care delivery and the ability to use applications based on business model requirements and a common set of clinical information.
- Telemedicine. Not only tele-consultations and telesurgeries, but also health record exchange, videoconferencing, and home monitoring. Cloud computing, IOT, and the related ease of services deployment and data storage is an enabler for telemedicine.

Opportunities

- Big Data. Healthcare organizations turn to cloud computing to save on the costs of storing hardware locally. The cloud holds big data sets for EHRs, radiology images and genomic data for clinical drug trials.
- Big Data Visualization to improve communication & data and information distribution across the nation.

Thank you

vibara11@gmail.com