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9th International Skills Forum Reimagining Education and Skills Development for a the New Normal

23–27 August 2021







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# Digital Access in Education: Lessons Learned from Indonesia



**Prof. Yudho Giri Sucahyo, Ph.D** Faculty of Computer Science, Universitas Indonesia Chairman of PANDI (.id Registry) yudho@cs.ui.ac.id



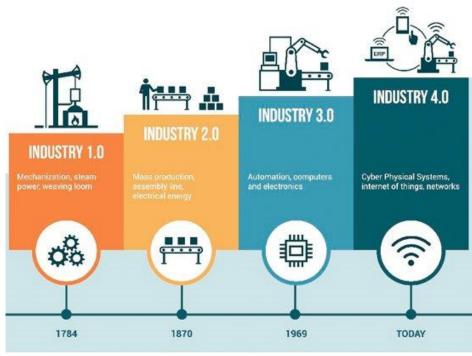






### Industry 4.0 and Society 5.0







### **President's Directive**

### Jadikan Pandemi Covid-19 Momentum Percepatan Transformasi Digital



66

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"Segera lakukan percepatan perluasan akses dan peningkatan infrastruktur digital. Percepat penyediaan layanan internet di 12.500 desa/ kelurahan serta di titik-titik layanan publik."

Presiden Johowi Senin, 3 Agustus 2020

### 5 LANGKAH PERCEPAT TRANSFORMASI DIGITAL

- "Segera lakukan percepatan perluasan akses dan peningkatan infrastruktur digital dan penyediaan layanan internet."
- "Persiapkan roadmap transformasi digital di sektor-sektor strategis. Baik di sektor pemerintahan, layanan publik, bantuan sosial, pendidikan, kesehatan, perdagangan, industri, maupun penyiaran."
  - 3. "Percepat integrasi pusat data nasional."
    - 4. "Siapkan kebutuhan SDM talenta digital."

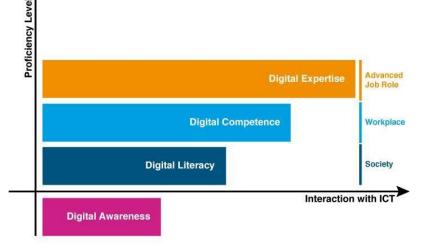
tal."

 "Yang berkaitan dengan regulasi, skema pendanaan dan pembiayaan segera disiapkan secepat-cepatnya."



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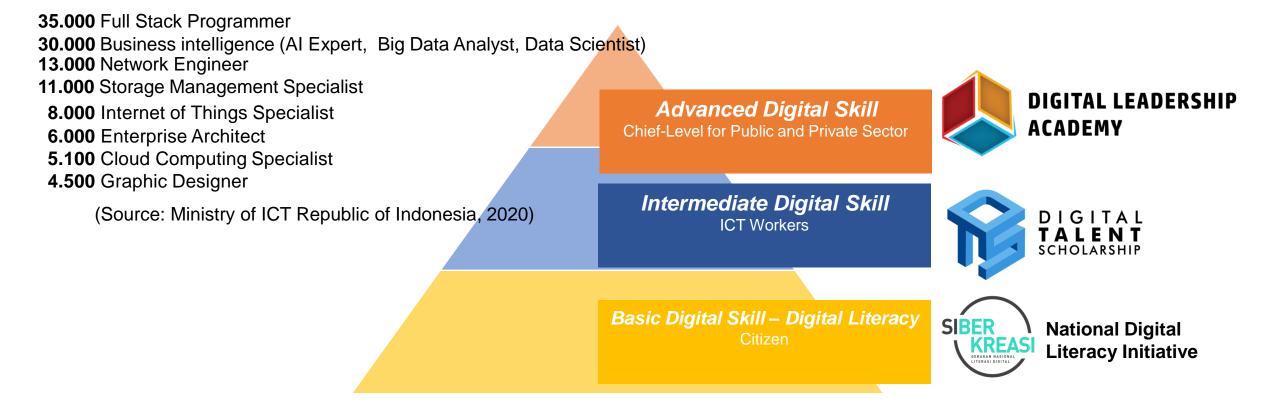




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### **Digital Competencies**

#### 8 Most Needed Hardskills in Indonesia









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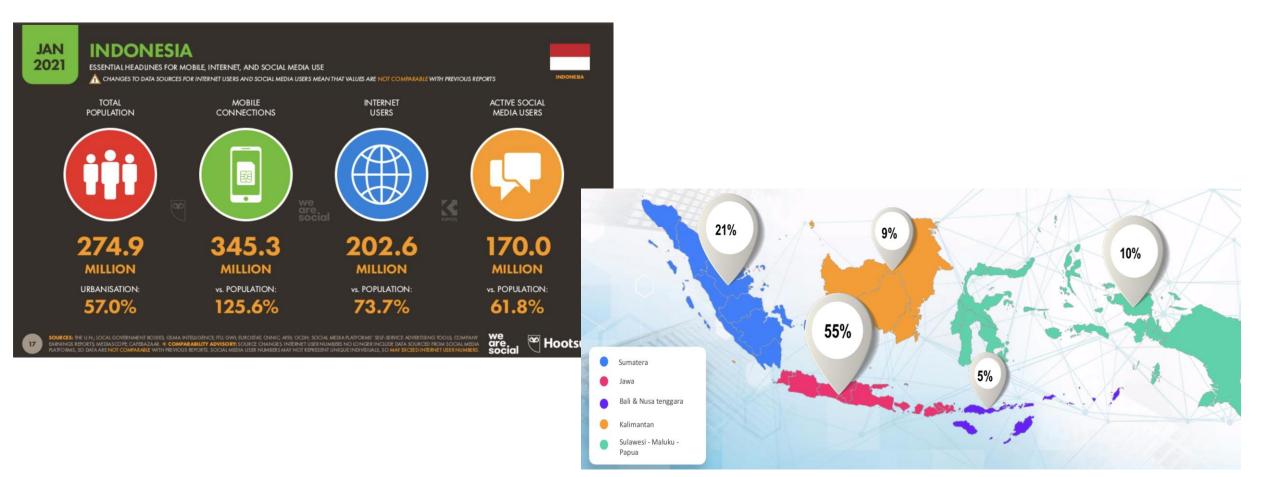
23–27 August 2021 • 2–5 p.m. (Manila time)

## Infrastructure





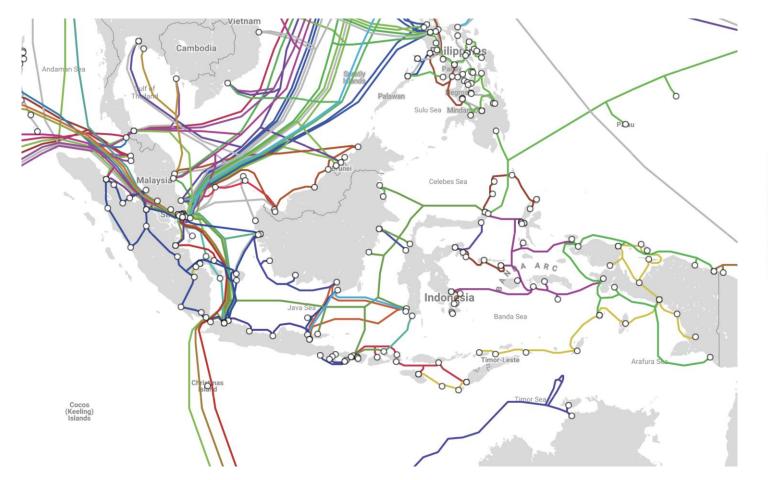
## Indonesia Digital Profile



Source: APJII Internet Survey, 2019



### Indonesia Internet Backbone – PALAPA RING







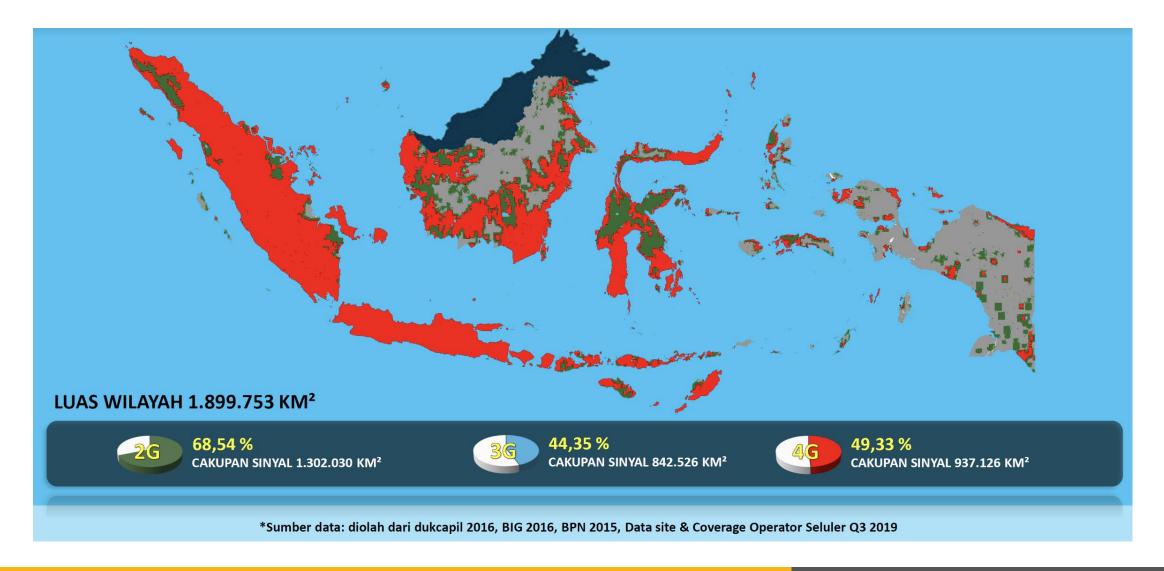




Source: submarinecablemap.com

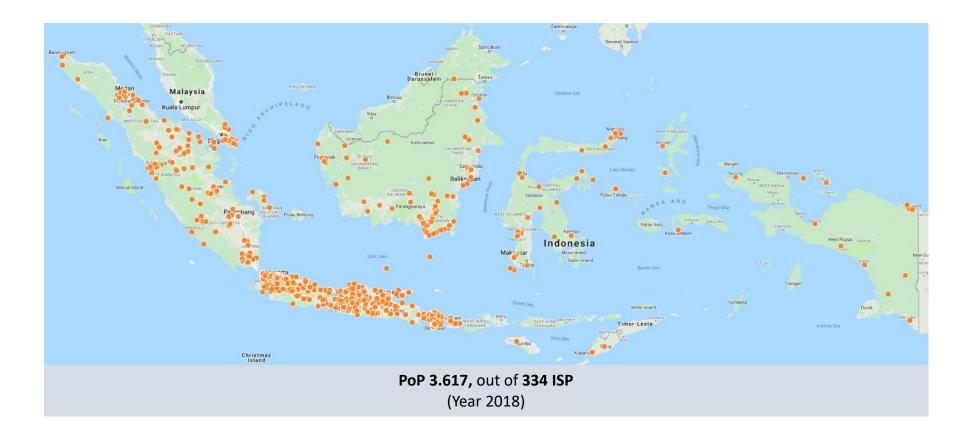


### Signal Coverage





## PoP (Point of Presence) - ISP





## Access for Villages, via Satellite















Lessons Learned from Indonesia

- Limited Internet Access
- Availability of smartphones/laptops
- Limited Internet Quota related to Funding
- Limited Direct Communication between Teacher and Students
- Limited competencies of parents to help their children (homework etc.)
- Working parents Limited time
- Limited Digital Technology Competencies of parents and teachers

### **ICT Access Hierarchy**

**Access to Local Content Access to Content** Access to Internet **Access to Internet Infrastructure Access to Computer Access to Electricity Access to Education** Access to Funding



# Thank you



