

# Cloud and BIG Data

**Want to know you**



# Me...

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Regional IT Manager - APAC at an International NGO

Host and Organized

"Mekong ICT Camp" - 2008 - 2018 - [www.mekongict.org](http://www.mekongict.org)

"Barcamp Bangkok" Since 2013 - [www.barcampbangkok.org](http://www.barcampbangkok.org)

and many IT related event.

Find me on Facebook, Twitter : iamSK

LinkedIn: [www.linkedin.com/in/iamSK](http://www.linkedin.com/in/iamSK)



# 1980 PC Revolutions

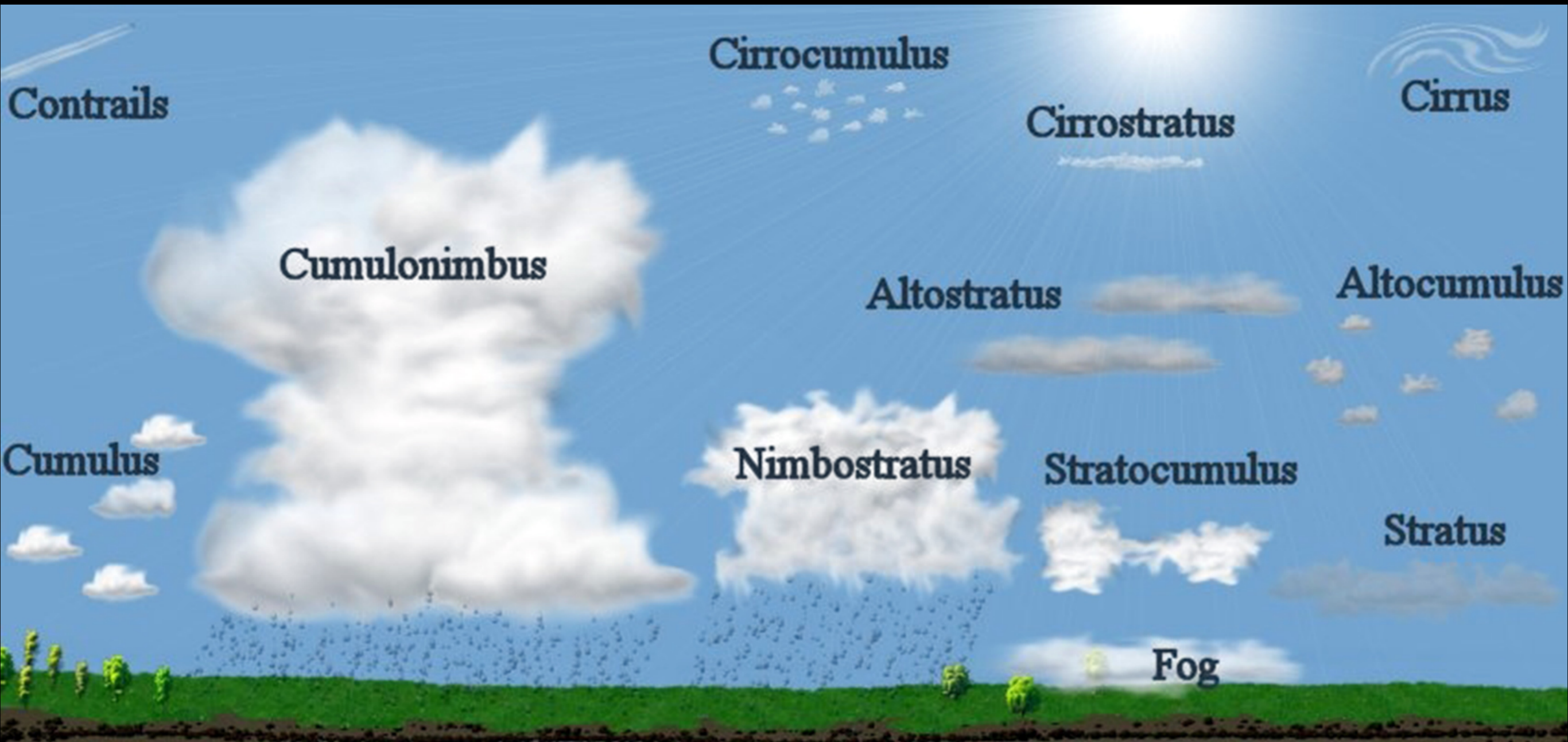


# From ARPANET to Internet

# What is Cloud actually?



# Type of Cloud



# Cloud Computing

**Cloud Computing** is a shared pools of configurable computer system resources and higher-level services that can be rapidly provisioned with minimal management effort, often over the Internet.

**Cloud Computing** relies on sharing of resources to achieve coherence and economies of scale, similar to a public utility.

source: Wikipedia



# Can we buy a Cloud?

Amazon Web Services (AWS)

Google G Suite

Microsoft Azure

...

# Service Models

Infrastructure as a Service (IaaS)

Platform as a Service (PaaS)

Software as a Service (SaaS)

(mobile) Backend as a Service (BaaS)

Serverless Computing

and much more...

# Infrastructure as a Service (IaaS)

Infrastructure as a Service (IaaS) is a form of cloud computing that provides virtualized computing resources over the internet.

# Platform as a Service (PaaS)

**Platform as a Service (PaaS)** is a form of cloud computing that provides a platform and environment to allow developers to build applications and services over the internet.

PaaS services are hosted in the cloud and accessed by users simply via their web browser.

# Software as a Services (Saas)

**Software as a Service (SaaS)** is a software distribution model in which a third-party provider hosts applications and makes them available to customers over the Internet.

# Deployment Models

Private Cloud

Public Cloud

Hybrid Cloud

Others

- Community Cloud

- Distributed Cloud

- Multicloud

- Big Data Cloud

- HPC Cloud

# Private Cloud

**Private Cloud** refers to a model of cloud computing where IT services are provisioned over private IT infrastructure for the dedicated use of a single organization.

Also call On-Premises cloud computing

# Public Cloud

**Public Cloud** is defined as computing services offered by third-party providers over the public Internet, making them available to anyone who wants to use or purchase them.

Public Cloud may be free or sold on-demand, allowing customers to pay only per usage for the CPU cycles, storage, or bandwidth they consume.

# Hybrid Cloud

**Hybrid Cloud** is a cloud computing environment that uses a mix of on-premises, private cloud and third-party, public cloud services with orchestration between the two platforms.

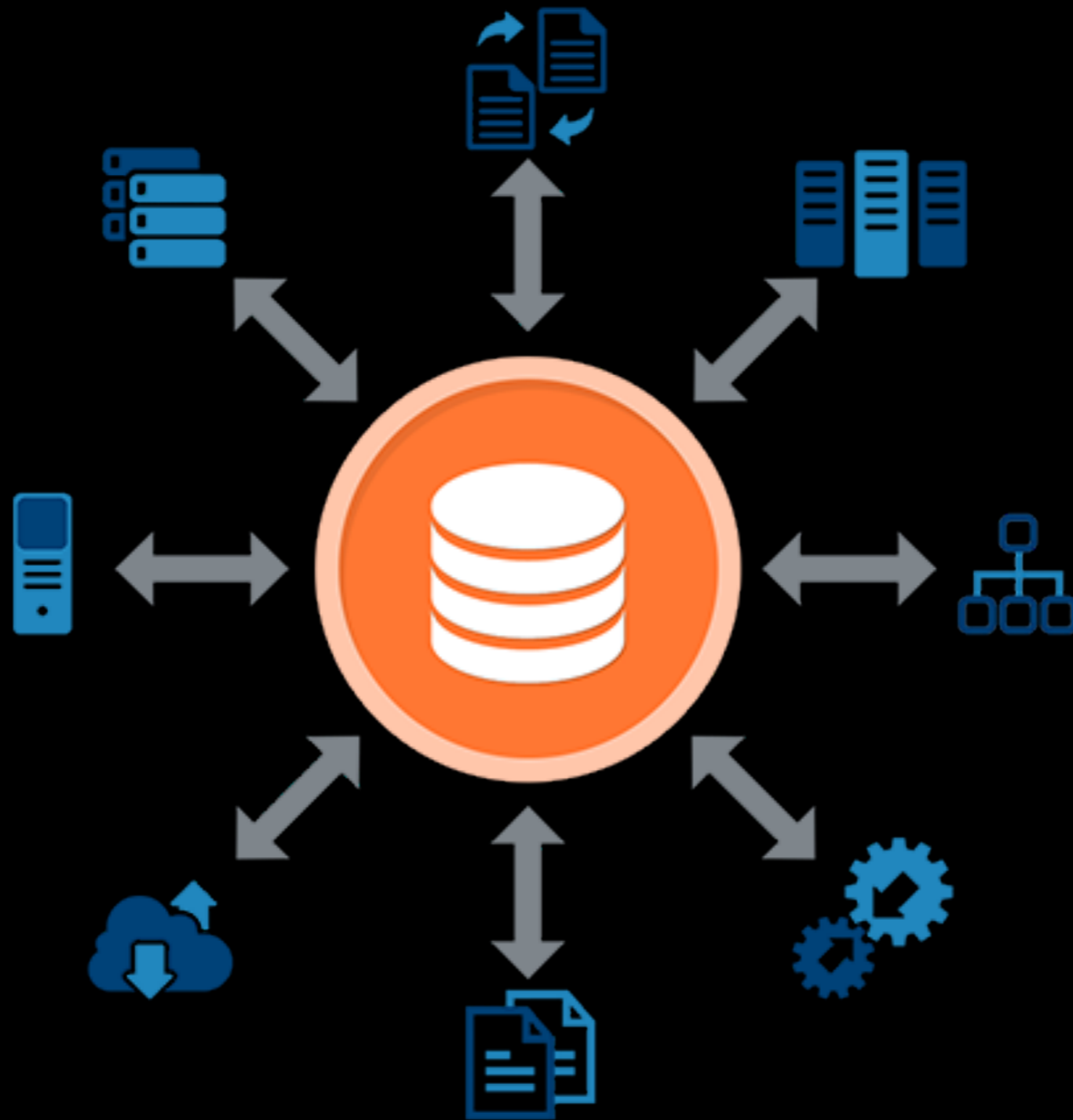
# Data - BIG Data

**Data** is a set of values of subjects with respect to qualitative or quantitative variables.

**Data** is Information. **Data** is everywhere and very **BIG**

**BIG Data** is a term used to refer to "data sets", the data sets is very large and complex to manage by traditional data processing process.

# Data Mining / Warehouse



# Make use of BIG Data

**Data science** is an interdisciplinary field that uses scientific methods, processes, algorithms and systems to extract knowledge and insights from data in various forms, both structured and unstructured, similar to data mining.

**Data Scientist** is a professional responsible for collecting, analyzing and interpreting large amounts of data to identify ways to help a business improve operations and gain a competitive edge over rivals.

# Make use of BIG Data

The (sort of) dark side: Microsoft, Amazon, LinkedIn, Facebook, Apple, Uber, AirBnb, Google, Shopping mall and Online Shopping, Airlines, Hotel Booking Services, and much more....

The good people: Medical/Healthcare, Research, Earth Quake Prediction, Radiation Outbreak, Mobile Payment,

Microsoft  
**FUTURE NOW**  
AI for Thais  
Accelerate Your Transformation with AI



Microsoft  
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AI for Thais  
Accelerate Your Transformation with AI

### From Thai Doctor to Microsoft Research Center



**Dr. Pijika Watcharaphichat**  
Researcher, Microsoft Research Center

คลุกวงใน AI กับ ดร. พญ. พิจิกา วัชราริชาติ  
คุณหมอไทยผู้หลงใหลในเทคโนโลยีจาก  
Microsoft Research Center  
สัมภาษณ์โดยคุณทีปกร วุฒิพิทยามงคล



**Teepakorn Wuttipittayan**  
Editor-in-chief The MATTER



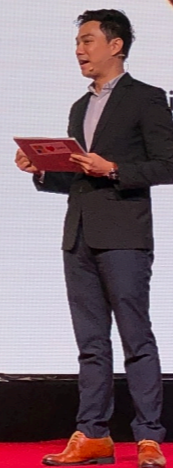
**Pijika Watcharaphichat**  
Researcher, Microsoft Research Center

### From Thai Doctor to Microsoft Research Center

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Microsoft

# Children with Dyslexia

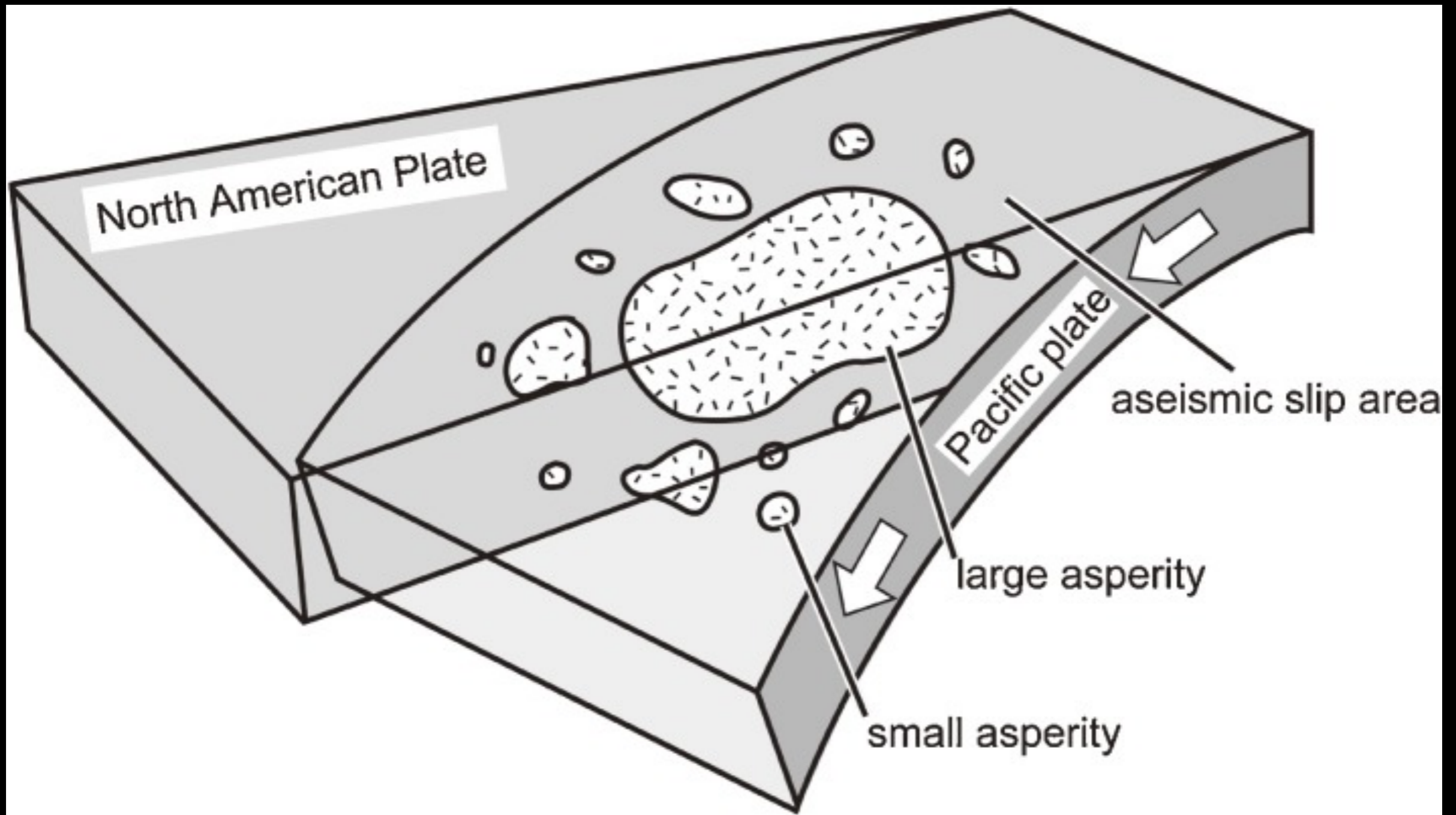
Children with reading disorder

analyzed eyes movement to diagnose the children.

diagnostics time is reduces from 3 years to just 3 minutes.



# Japanese Earthquake prediction



Source: [www.ncbi.nlm.nih.gov](http://www.ncbi.nlm.nih.gov)

# Security ?



# Truemove H Data leaks

Niall Merrigan

Mar 8

All the ID cards of the people who have used your service are stored in an open Amazon S3 bucket

So when people sign up I assume they need to show id and this gets copied. This data is stored in the AWS cloud and is discoverable and open for anyone to download

Which is a serious information security breach for your customers



Mar 8 ✓

truemove

Please send all the details including the proof to our Email address: [truemovecare@truecorp.co.th](mailto:truemovecare@truecorp.co.th). Thank you.

Mar 8

# Truemove H Data leaks



Mon 12/03/2018 05:09

Truemove\_care@truecorp.co.th

RE: Security issue Truemove responsible disclosure [T20180308054NS010Z4945689]

To:  Niall Merrigan



You replied to this message on 02/04/2018 14:18.

Outlook blocked access to the following potentially unsafe attachments: ~b857987.TMP.

Dear Ms Merrigan,

Further to your e-mail, we regret to inform you that we have no contact point of security department as your request. We would suggest you to contact Head Quarter phone no. +66-2-859-1111 (Monday-Friday 08.00 AM-05.00 PM) for further advice.

Best Regards,  
Real Move

# Marriott data breach

500 millions customer information hacks.

name, gender, email address, passport number, DOB,  
your travel information,  
and Credit Card Information

**Your own Privacy !**



SK Somphop shared a photo.



10 December at 22:32 ·

ใครหว่า โคตรเท่เลย 😂😂😂

จี้ดกับ AI ของ Facebook รูปข้างต้น Post โดยคนที่ไม่รู้จักกันเลย คนที่โดนถ่ายในภาพก็ไม่รู้จักกัน แค่ว่าบังเอิญผ่านไป แล้ว AI มันก็ Tag มาให้เลย

ตาย่านแท้ ๆ



Punyavut Firsttee Maikami is with SK Somphop in Maha Sarakham.

9 December at 23:22



You, Bas BasTion, อรชร อุบลแสน and 11 others

4 comments

Q & A