



Kuala Lumpur 24-26 Sept 2019

Session 1: Mobile IoT Latest Developments



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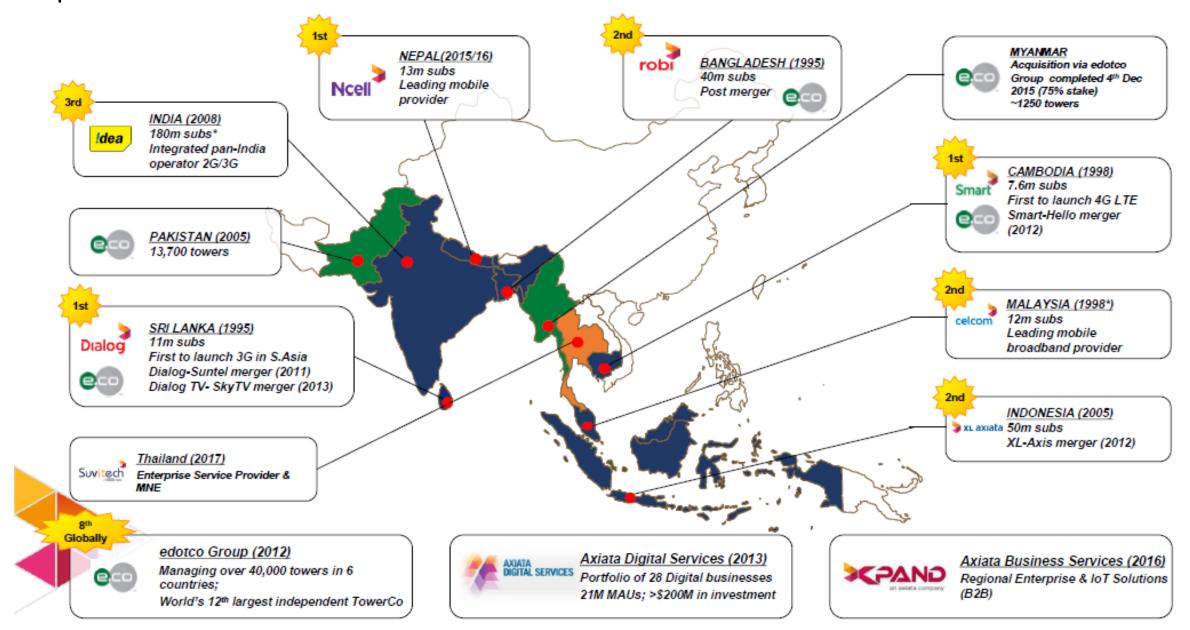


Session 1: Mobile IoT Latest Developments

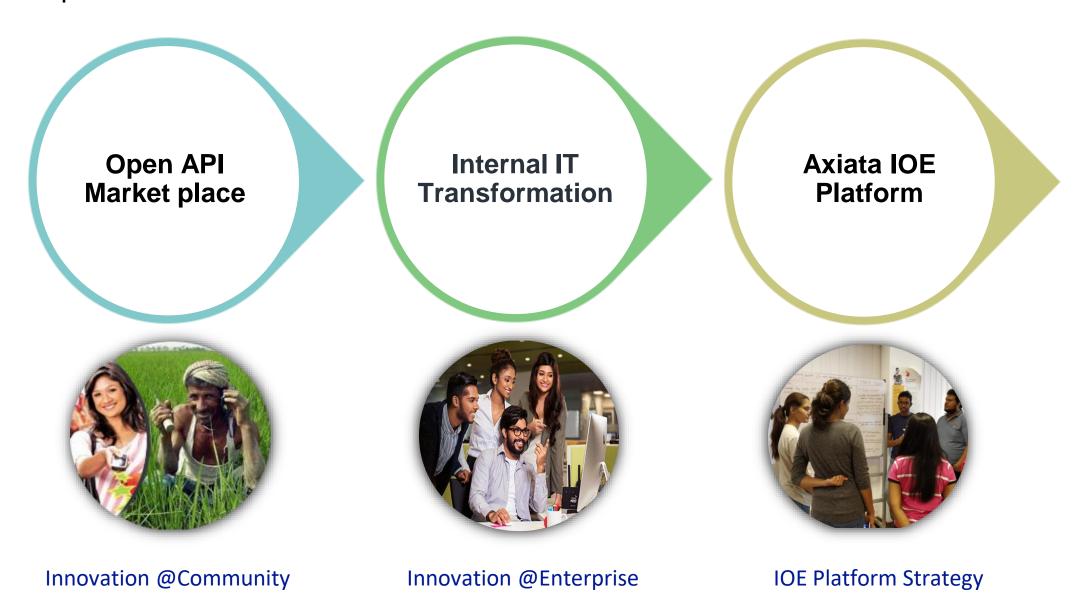
Dr Indika Samarakoon
Head of M2M/IoT Strategy Development
& Partner Management
Dialog Axiata
Axiata Group

Axiata's IOE Platform Play

Axiata Group is one of the leading telco groups in Asia, with 150 Million subscribers (ex India) and presence across 11 countries..



Axiata's Internet Of Everything (IOE) approach was founded on learnings from an external API market place and internal IT transformation



Open API Market place: Opening APIs and co-innovating via community



Accelerate innovation relevant to the local community by 10x – Solve local problems!



Partner with community and developers to co-innovate @scale



Extract more value from the underutilized telco assets/plumbing via Open APIs

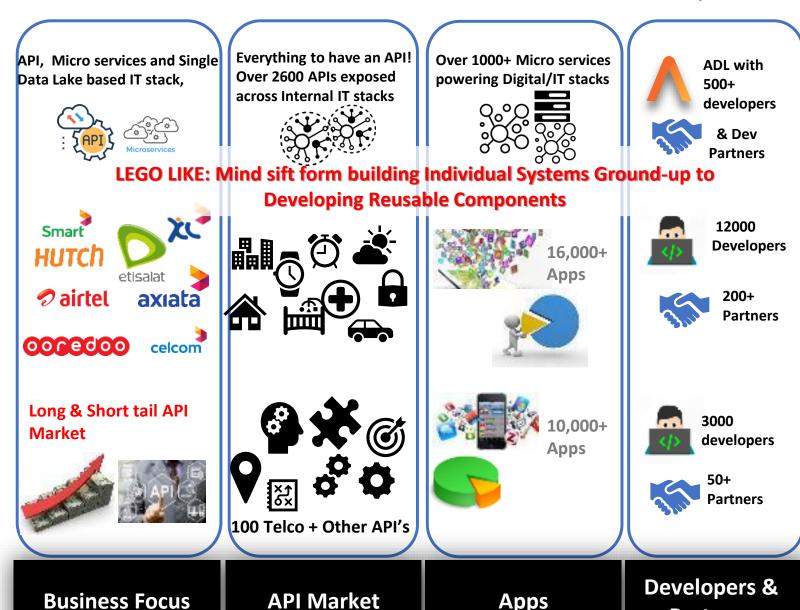
API Market

a platform for IOE!

Internal IT **Transform** ation

Partnering to build ecosystem

Open API Market place



Apps

Developers & Partners

API platform business evolution

Key principles driving Axiata's IOE platform approach

Every API is part of "IOT"

Telco network, IT/BSS, physical, logical assets are API'd and is part of the Internet of Everything

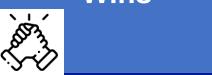


Horizontal Platform Play



Innovation on IOT will be localized - solving specific problems at City/Village/Community level, by the Community/developers/Enterprise

Partner & Joint Wins



Partner with device, platform players and other Telcos to create the best possible ecosystem for local innovators

Key architectural principles of the IOE platform



Platform designed and built on cloud, open API and Micro services based - ready to extend & scale on demand



Platform is 100% open API based towards north bound developers and connectivity to south bound to partners/devices

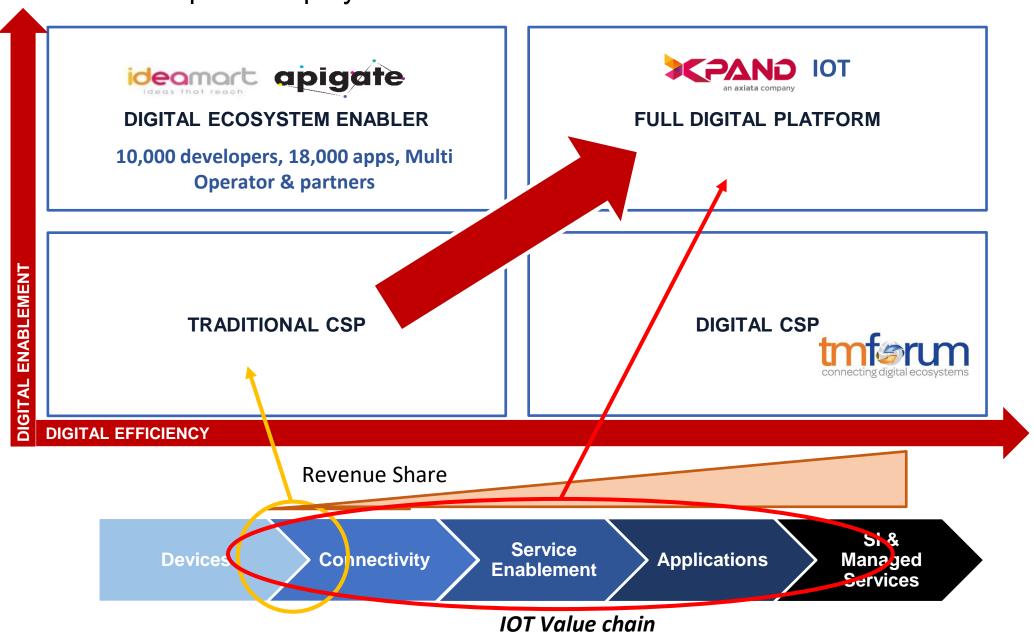


Connect all physical, logical and internet "things" or to any partner or device on demand and DIY

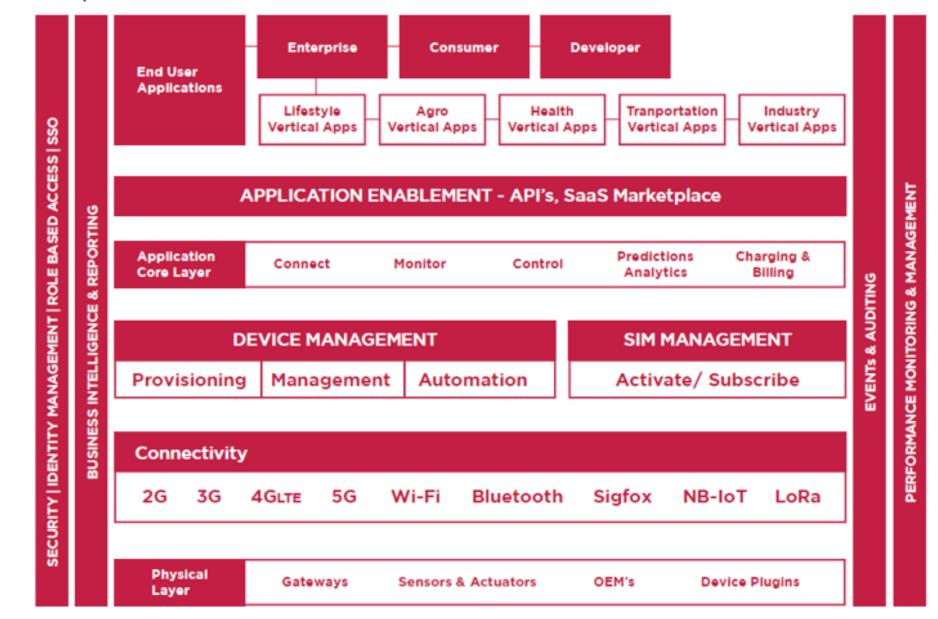


Data management, security and AI embedded in to every component of the platform architecture

Axiata is extending the digital ecosystem enabler status to a full digital platform play by adding the "IOT" dimension to platform play



IOT Platform snapshot



Collaboration/Partnerships to co-develop IOE "things" and solutions





Orange Electric Smart Socket

















Solid foundation for sustainable IOE platform through Engagement and partner ecosystem development

School-level Engagements to Stimulate IoE Innovation at a young age.



12,000+ Active Developers on our **Platforms**



Specific **Engagements for** Women in Tech



Hands-on Knowledge on **Platforms**



Engaging developers beyond boards to empower IOT development in the region



Largest Google I/O Extended Events in 2016/17/18

Google Extended

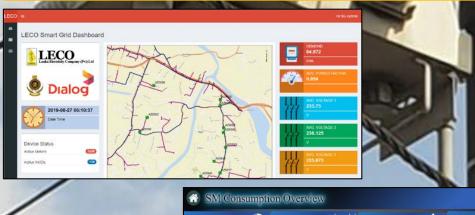


IoT Specific Hacks on Hardware Device development





Use case: Smart Metering and Network Automation (Smart Grid)





IOT Based Smart grid Solution

- Affordable purpose built hardware with E2E solution from smart device to IOE platform and Utility Dashboards
- Smart Metering with Prepaid facility, remote meter reading & remote disconnection/reconnection
- Smart Grid management with Network Automation, Realtime power quality monitoring & Utility Analytics

Smart Meter



NMD



GPRS/NBIOT Smart Modems





Pilot Deployment by LECO

- 3200 Smart Meters
- **150 Network Monitoring Devices**

Introduced Prepaid Electricity Metering to Sri Lanka

A GSMA Funded Project

Dialog - Recognized as a Champion in GSMA M4D GSMA* **Utilities Program**

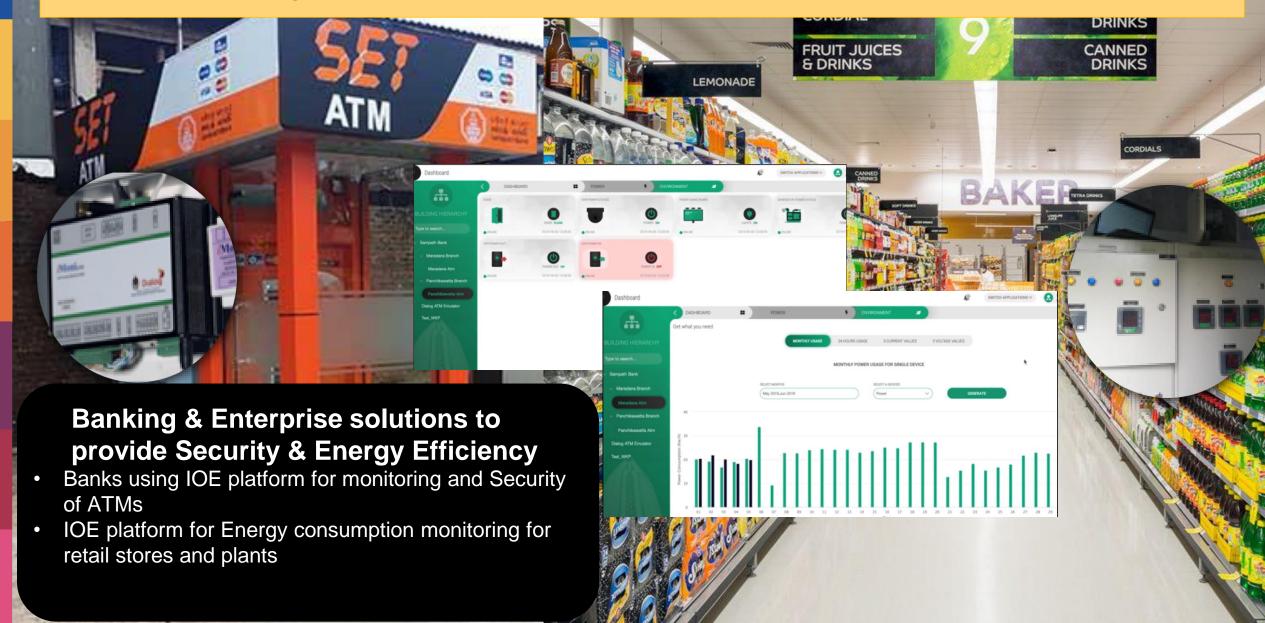








Use case: Banking and Retail Chains

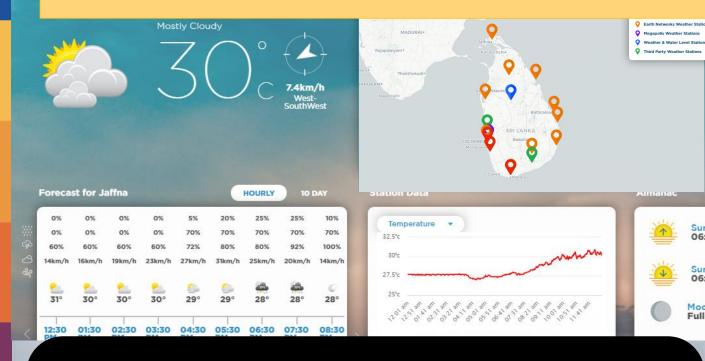


Use case: Smart mAgri Solutions



Last upda

Use case: Smart Weather

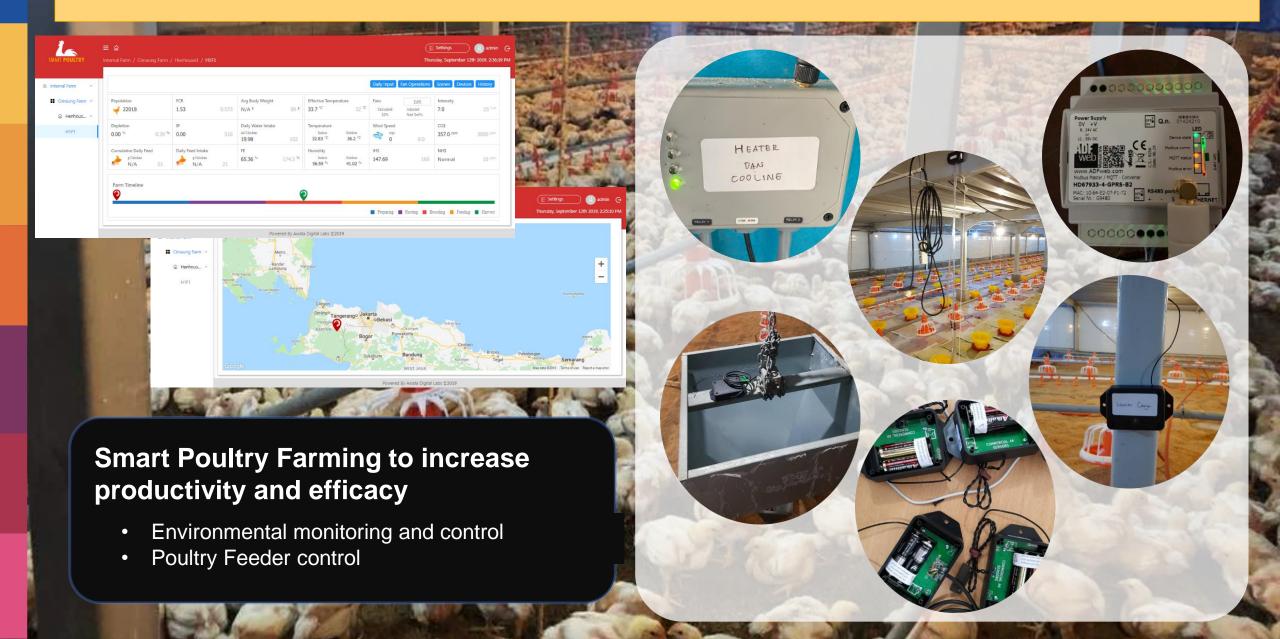


Dialog own Weather Network to Increase the Accuracy on Weather Prediction

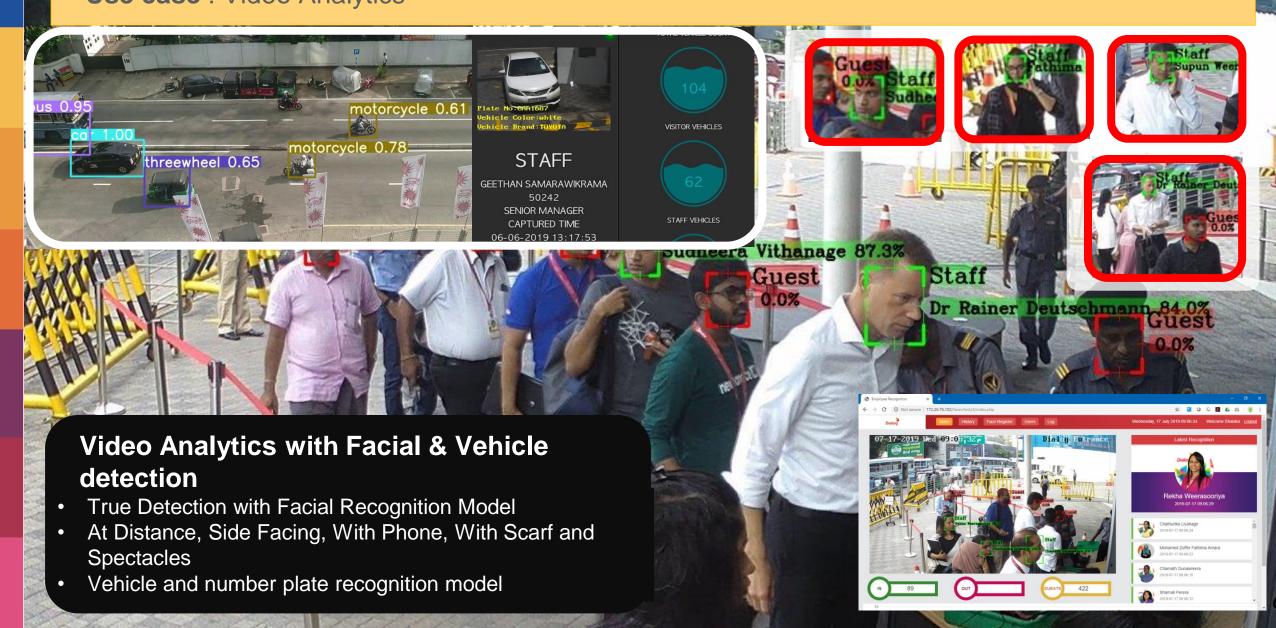
- Partnering with Experienced Weather Networks for more Accurate Predictions
- Actionable weather data to Farmers to minimize crop damage
- Severe Weather Warnings to Coastal Communities and Fisheries Harbors
- Whether API for developer community



Use case: Smart Farm/ Livestock Solutions

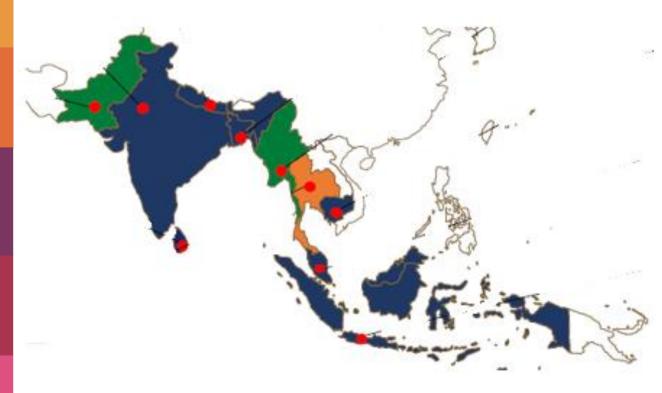


07-05-2019 Feri 08:37:28 Dialog Entrance Use case: Video Analytics



Mobile IoT (NB-IoT/LTE-M) strategy in Axiata

- Axiata Opcos are NBIOT/LTE-M ready
- We are exploring use cases with our network partners Huawei & Ericsson
- Dialog Axiata (Sri lanka) Already deployed & the efforts have been recognized by Glotel



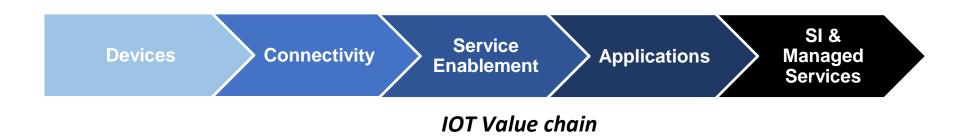


A solid foundation for sustainable IOE platform play is engagement and partner ecosystem development

Build out of an IOE ecosystem via many partnerships at device and platform level

- P2P integrations to jointly develop ecosystem with other IOT platform players
- Open APIs both south and north bound to connect with device and solution partners
- Open to work on rev share and federation across multiple operators

We welcome partners to join hands with us to enrich the IoT Ecosystem in the region



Thank you

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Vivek Malhan (Axiata Enterprise)
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