

PRACTICAL INSIGHTS

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TO FOSTER

ACROSS INDUSTRIES

INFRASTRUCTURE V

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MAKING AI A REALITY: LAYING THE FOUNDATIONS FOR SCALABLE, REAL-WORLD INTELLIGENCE



ETHICAL & RESPONSIBLE

(ACADEMIA, BUSINESS, GOVERNMENT, COMMUNITY

APPROACH, INTENDED to BE INCLUSIVE,

KEY CHALLENGES FOR AI DEVELOPMENT IN INDONESIA

D INPONESIA NEEDS 9 MILLION DIGITAL TALENTS BY 2030

TALENT GAPS > A SEVERE OF DEVELOPERS

INFRASTRUCTURE & ACCESS

DINDONESIA NEEDS 2800MW OF DATA CENTRE CAPACITY TO SCALE AT CURRENTLY WE'RE AT 500MW WE NEED DISTRIBUTED DATA CENTRES ALL ACROSS

DATA . SECURITY & PRIVACY **REGULATION & ETHICS**

WE NEED A ROBUST REGULATIONS & ETHICAL STANDARDS

THOMAS LEE | VICE PRESIDENT, BUSINESS DEVELOPMENT, APJ REGION, SUPERMICRO

FROM NOW to NEXT: POWERING THE AI JOURNEY WITH SCALABLE INFRASTRUCTURE & BEYOND



WE HAVE th 4TH LARGEST POPULATION

NEW AL DEMANDS & CAPABILITIES LEAD to NEW INFRASTRUCTURE DEMANDS

TRADITIONAL AIR-COOLING SYSTEMS CANNOT APORESS THE DRASTIC RISE IN POWER CONSUMPTION & HEAT GENERATED FROM MODERN AT ARCHITECTURES

AS WELL AS MASSIVE INTERNET APOPTION

DESIGN

DFOR FUTURE

WORKLOADS

THE "COST" OF INACTION WILL RESULT S IN YOUR COMPANIES

FALLING BEHIND IF YOU 5 KEY DON'T ADOPT AL

CHALLENGES OF MODERN AI INFRASTRUCTURE BUILT- OUT



HEAT LOADS



D CURRENT RACKS NEED 60-120 KW VS TYPICAL 20-25kW PROVIDED

TRANSITION TO LIQUID OR HYBRID

BOBBY WIJAYA | SENIOR SYSTEM ENGINEER, LENOVO





THERE IS AN EXPLOSION OF DATA LARGELY DRIVEN BY ADOPTION OF AL

INCREASED BUDGETS

EMPLOYEE PRODUCTIVITY > SUSTAINABILITY



WITH LIQUID COOLING SIGNIFICANTLY

REDUCING WASTED POWER FOR COOLING

IT'S IMPERATIVE tO HAVE ROBUST DATA SECURITY & PRIVACY MEASURES WHEN IMPLEMENTING AI

FOR SENSITIVE INCLUDES TRADITIONAL INTERNAL LENOVO NEPTUNE COMPANY DATA LIQUID COOLING TECHNOLOGY FAMIL PG25 GLYCOL & A UNIQUE "WARM WATER

OF SPECIAL FLUIDS

COOLING " APPROACH THAT

USES WARM WATER INSTEAD

COMPARED to AIR COOLING LENOVO IS #1 IN X86 10 CONSECUTIVE YEARS

SERVER REALIABILITY FOR

PROF. DR. IR. HAMMAM RIZA, M.Sc., IPU | PRESIDENT, KORIKA WILBERTUS DARMADI I CIO. TOYOTA ASTRA MOTOR BINTORO YUWONO | PRESIDENT DIRECTOR, BERCA HARDAYAPERKASA

ANDRY GUNAWAN I ENTERPRISE BUSINESS COUNTRY MANAGER INDONESIA NYIDIA

PANEL | FROM VISION TO DEPLOYMENT:
POWERING AI FROM POLICY to ENTERPRISE



BO'S NVIDIA USE CASES FOR AL ..

THE CONCEPT OF SOVEREIGN AI WILL EMPOWER INDONESIA to MANAGE OWN DATA STEEN STEEN WITHIN RESPECTIVE DATA CENTRES



IF WE DON'T HAVE GOOD DATA QUALITY THE IMPLEMENTATION OF AI WON'T BE VERY SUCCESSFUL

DATA

READINESS

IS CRUCIAL



DATA & the / LLM&) AI MODEL (SLM) ARE TWO VERY IMPORTANT COMPONENTS FOR AI IMPLEMENTATIONS

