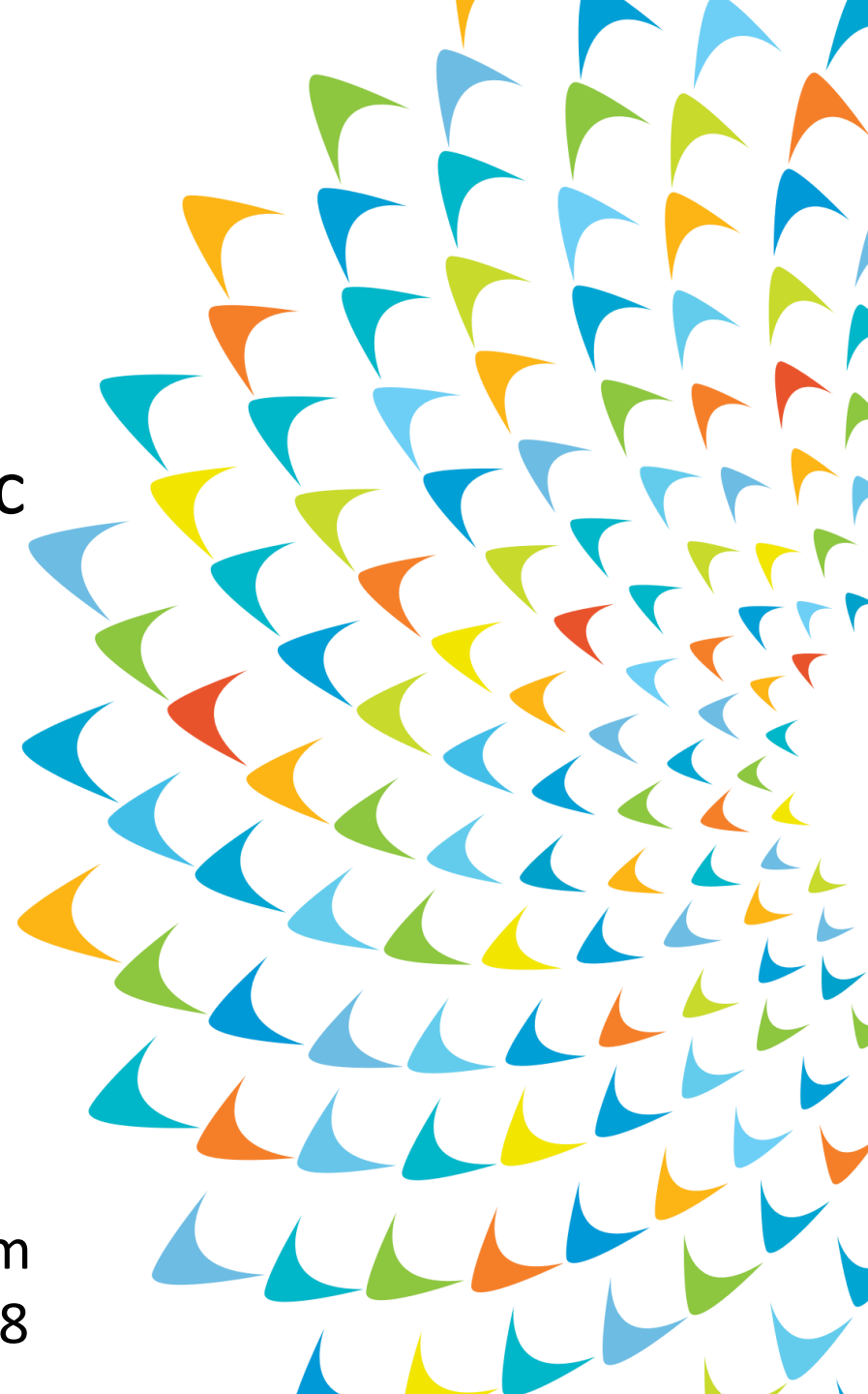




ADB Transport Forum: Financing the Future of Transport in Asia and the Pacific



Jamie Leather
Chief of the Transport Sector Group
Asian Development Bank

11th EST Forum
5 October 2018





ADB Transport Forum 2018

 TRANSPORT FORUM 2018 Manila, Philippines 12-14 September 2018				Organized by					
Wednesday 12 Sept				MAIN FORUM Thursday 13 Sept			Friday 14 Sept		
8:30 a.m. - 9 a.m.				Registration			Registration		
9 a.m. - 10:30 a.m.				Session 5 Climate Mitigation and Transport	Session 6 Rail Transport	Urban Transport Mobilize Your City (By invitation)	Training 4 High Technology	Training 5 Mobilize Your City	Special Session (by invitation) Road Asset Management
11 a.m. - 12:30 p.m.				Innovative Technologies Plenary • Opening of Innovative Transport Technologies Poster Session		Closing Plenary Session • Knowledge Partners • Strategy 2030 • New Procurement Guidelines • Closing Remarks			
12:30 p.m. - 2 p.m.				LUNCH BREAK					
2 p.m. - 3:30 p.m.		Session 1 E-Vehicles and New Transport Technology	Session 2 Regional Connectivity	Donor Roundtable (By invitation)	Training 1 Railway Asset Management	Training 2 Building Leaders in Urban Transport Planning	Training 3 Road Safety	Training 6 Nature Based Approaches to Designing Transport Infrastructure	Training 7 Rural Roads
4 p.m. - 5:30 p.m.		Session 3 ADB's Sustainable Urban Transport Program	Session 4 Innovative Finance						
Welcome Reception									

https://drive.google.com/file/d/1gE-qstqL-VGS0si-ZTO-fM3iF8JS_fUO/view





ADB Transport Forum 2018: Key messages for EST and post Bangkok Declaration

- Transport requirements are changing
 - Move toward system management and operational efficiencies (as opposed to infrastructure construction)
- Key areas for consideration for EST and post Bangkok Declaration:
 - Climate change and environment
 - Sustainable urban transport
 - Technology (e-mobility)



CLIMATE MITIGATION and TRANSPORT



ASIAN EST INITIATIVE

CLIMATE RESILIENCE

AIMS TO BUILD A COMMON UNDERSTANDING OF EST & THE NEED TO ADOPT INTEGRATED APPROACH OF TACKLING MULTISECTORAL TRANSPORT & ENVIRONMENTAL ISSUES

AVOID SHIFT IMPROVE

THE CHALLENGE CAPACITIES OF EACH CITIES TO TACKLE ISSUES + FINANCING

LACK OF UNDERSTANDING OF ENVIRONMENTAL GO-BENEFITS

BEST PRACTICE FOR E-TRANSPORT

MINDSET SHIFT FUND MOBILITY, NOT ROAD CONSTRUCTION

NOT JUST FOR "POOR" SAFETY!

C40 TOWARDS A HEALTHIER & MORE SUSTAINABLE FUTURE!

ACHIEVING DEADLINE 2020

TRANSPORT BUILDINGS WASTE MGT

PROCURE E-BUS

ENSURE 0-EMISSIONS

ENCOURAGE WALKING + BIKING!

THE CHALLENGE HARMONIZING DATA FROM AROUND THE WORLD

BEST PRACTICE FOR E-TRANSPORT

MORE GREEN SPACES URBAN PLANNING

GHG ACCOUNTING REQUIRING COUNTRIES TO REPORT THEIR GHG EMISSIONS

WOMEN EQUALITY SAFETY & EFFICIENCY GREEN TRANSPORT

TRAFFIC VOLUME x EMISSION FACTOR = EMISSION

(NORMAL + DIVERTED TRAFFIC) = VEHICLE SPEED x FUEL EFFICIENCY

THE CHALLENGE ACCURATELY QUANTIFYING THE MOVING TARGETS

WHICH REQUIRES ... FUEL EFFICIENCY TECH ADVANCEMENT

BEST PRACTICE FOR E-TRANSPORT

MINDSET SHIFT POLICY MAKERS BUY-IN

VIETNAM MINISTRY OF TRANSPORT PROGRESS IN GHG EMISSION REDUCTION & TRACKING

- NAMA BUS PROJECT
- MRV FOR GHG REDUCTION ACTIVITIES
- 2014 GIZ INVENTORY
- GHG EMISSION REDUCTION SCENARIOS

IMPORTANT TO QUANTIFY BECAUSE TO ACHIEVE GLOBAL STANDARD! (BUT WE LACK THE MANPOWER...)

THIS IS THE BEST WAY TO QUANTIFY CO2 EMISSIONS!

THE CHALLENGE CROSS CHECKING DATA

IMPORTANT! QUANTIFY DATA ACCURATELY TO GET PROPER FINANCING



ADB'S SUSTAINABLE URBAN TRANSPORT program

STRATEGIES IN PROMOTING SUSTAINABLE URBAN TRANSPORT

WHY SUT?

- AIR POLLUTION
- TRAFFIC CONGESTION
- UNSAFE ROADS

SOLVING GOALS

- SAFE
- AFFORDABLE
- ENVIRONMENTALLY FRIENDLY
- ACCESIBLE

SLOW PROJECT TRANSITIONS?

BUILD SUT PROJECT PIPELINES!

- LONG TERM ENGAGEMENTS
- REALISTIC EXPECTATIONS
- MORE UPSTREAM DIALOGUE
- PROJECT PREPARATION & READINESS

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KARACHI BRT PROJECT

- RESTRUCTURING THE WHOLE FACADE OF THE BRT
- INNOVATIVE LANE STRIP
- USE OF GREENERIES TO FACILITATE DRAINAGE
- PEDESTRIAN/BIKE WALK

ENSURE FINANCIAL SUSTAINABILITY W/O OPERATIONAL SUBSIDIES

NETWORK INTEGRATION TO ENSURE HIGHER RIDERSHIP

- ### OTHER FEATURES
- RAMPS FOR PWD
 - BIKE RENTAL NEAR STATIONS
 - FEMALE ONLY SECTIONS



PROJECT TOTAL COST: \$500 M

\$150 M ADB FUNDING

URBAN DEV PROJECT RATHER THAN JUST A TRANSIT PROJECT!

AFD MOBILITY STRATEGIC FRAMEWORK + MOBILIZE YOUR CITY PARTNERSHIP

GUIDING PRINCIPLE
AVOID - SHIFT - IMPROVE - ENABLE

MYC OBJECTIVES:

- REDUCED TRANSPORT-RELATED GHG EMISSIONS
- TRANSFORMATIONAL CHANGES
- MORE COMPREHENSIVE, INTEGRATED, PARTICIPATORY PLANNING

MYC ENABLES CITIES TO TAKE THE RIGHT STEPS TO SUSTAINABILITY

SUT CORRIDOR: YICHANG CHINA

- INNOVATIVE DESIGN
- REMOVED SETBACK PARKING
- BIKE SHARING IMPLEMENTATION
- LOCAL GOV'T BUY IN: IMPORTANT!!!
- COSTS NOT TOO EXPENSIVE
- CAN BE QUICKLY IMPLEMENTED (1 YR!)
- COLLABORATION



INNOVATIVE TRANSPORT TECH



AUTONOMOUS VEHICLES



REPLACING THE HUMAN DRIVER

ENABLING TECHNOLOGIES TODAY

- SENSORS
- MAPS
- COMMUNICATION
- INFRASTRUCTURE



DETECTING ROAD DAMAGE

MOBILIZING PEOPLE WITH DISABILITIES



NEW TECH IS BEING ADOPTED BY DEVELOPING COUNTRIES BECAUSE OF THEIR GREATER NEED

TECHNOLOGY IS EVOLVING FAST!

IN THE BLINK OF AN EYE, MOBILITY BECAME AVAILABLE AT YOUR FINGERTIPS!



DIGITALIZATION & AUTOMATION



USING DRONES TO MANAGE TRAFFIC & TRANSPORT ITEMS

CONVERGENCE

MOBILITY BECOMES SHARED, ELECTRIC, AUTOMATED

IMAGINE THE FUTURE & MAKE IT SO!



RETROFITMENTS

BY 2017... ALL NEW VEHICLES WILL BE PURE ELECTRIC VEHICLES!

ADAPT OLD CARS BY: RETROFITMENT

- REDUCED POLLUTION
- IMPROVED FUEL ECONOMY
- LOW INSTALLATION & MAINTENANCE COSTS



YOU DON'T NEED TO OWN A CAR TO GO AROUND!

EMOBILITY

MOTIVATIONS: CO₂ REDUCTION ↓ URBAN POLLUTION

CAR NUMBERS WILL DOUBLE BY 2040!

INCREASED POLLUTION

CONCERNS: EXPENSIVE, NO CHARGING STATIONS, LIMITED RANGE IN SINGLE CHARGE



FOCUS: HIGH MILEAGE VEHICLES, CITIES, LARGE FLEETS

OPTIMIZE: CHARGING STATIONS, BATTERY POLICY

INCENTIVIZE: INCLUDE NON FINANCIAL VENTURES





E-VEHICLES

and

NEW TRANSPORT TECH



EMOBILITY around the WORLD



CHINA'S E-BUS

MORE POWERFUL AND ENERGY EFFICIENT

LEADING IN E-BUS PRODUCTIONS

E-BUS TECHNOLOGY

- USE SMALL BATTERIES FOR FASTER CHARGE

COST EFFICIENCY

ECONOMICS

- LOWER MAINTENANCE IF HUGE FLEET SIZE
- HIGH OWNERSHIP COST

CO₂ EMISSIONS



WHY EV?

LOWER CARBON EMISSIONS

LOWER AIR POLLUTION LEVELS

LESS NOISE



TAIWAN E-SCOOTER PROGRAM

SOLVING THE POLLUTION PROBLEM FROM MOTORCYCLES

PROMOTING E-BIKES!

- INCENTIVIZE OWNERSHIP
- IMPROVE PERFORMANCE
- ENVIRONMENT FRIENDLY
- AS CREATIVE BUSINESS
- STANDARDIZATION



INDIA'S CHARGING SCHEME

SHARED ELECTRIC CONNECTED

TECHNOLOGY DEVELOPMENT

PILOT PROJECTS

DEMAND CREATION

CHARGING INFRASTRUCTURE

ARMENIA'S E-TRANSPORT INITIATIVE



- GOOD OPPORTUNITY FOR RAILWAY & CABLEWAY DEV'T

- PROVIDE TAX ADVANTAGES + INFRASTRUCTURES FOR E-VEHICLE OWNERS



PHILIPPINES E-JEEPNEYS

- NON EXISTENT POLICIES IN PH

PUSHING FOR E-BILL!

- ONLY PRIVATE SECTORS IN

NEED:

- FUNDS
- NATIONAL AWARENE
- INCENTIVES



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post Bangkok Declaration: areas for consideration

- Focus on areas of greatest impact for environmental benefits
 - Urban transport – largest growth, greatest concentration of emissions
 - Vehicle fleets – change is coming, establish suitable policies to welcome it
- Embrace technology
 - Data, real time analysis, system management and operation efficiencies
 - Vehicle technologies
- Flexible – operating in a changing environment
- Localized – one size does not fit all
- Link to SDG and 2030 Agenda, Paris Agreement
- Broader ADB support
- UN Transport



Thank you

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