

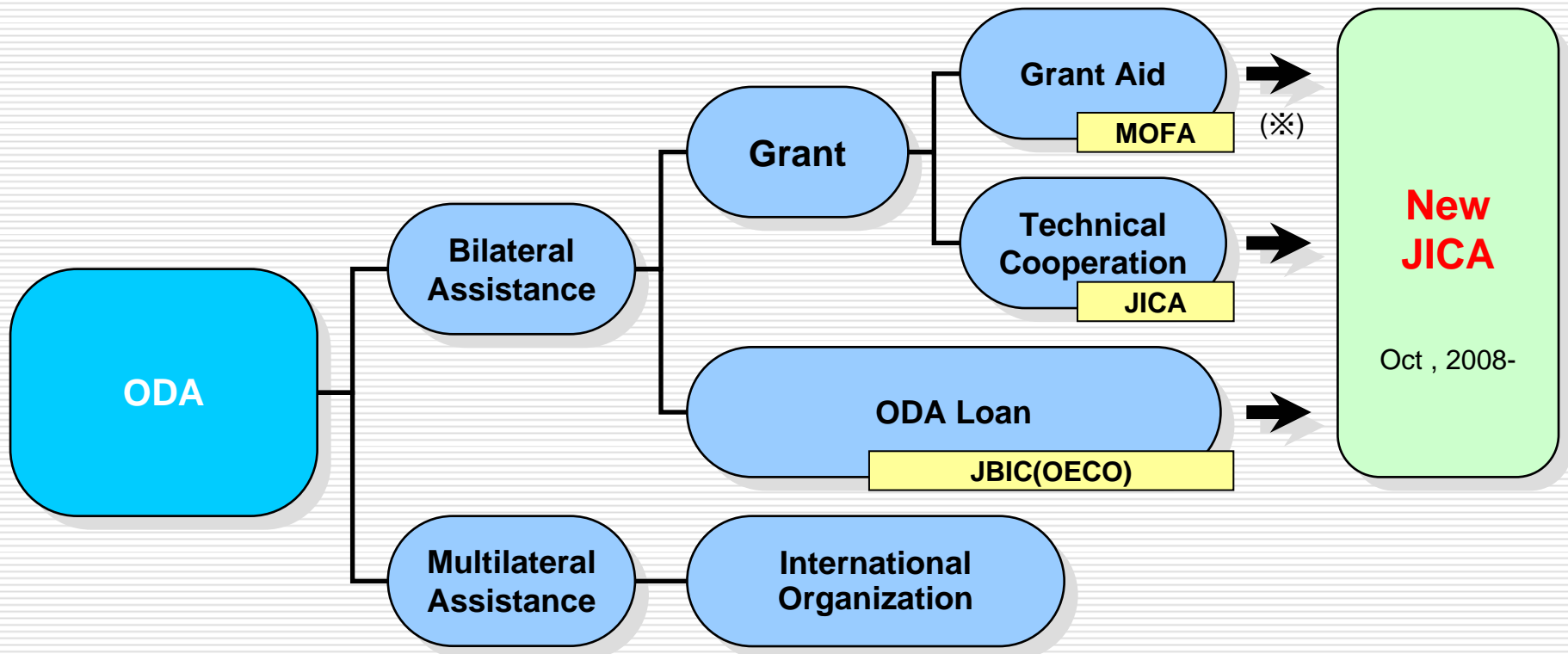
# Co-benefit Approach to Mitigation in Transport Sector

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Masato Kawanishi  
Senior Advisor, JICA  
18 March 2008



# Japanese ODA



(※) Ministry of Foreign Affairs will execute parts of grant aid, while the rest will be transferred to New JICA.

# Japan's ODA Policies and Initiatives for Climate Change

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2003 ODA Charter (revised)



2005 Medium-Term Policy on ODA



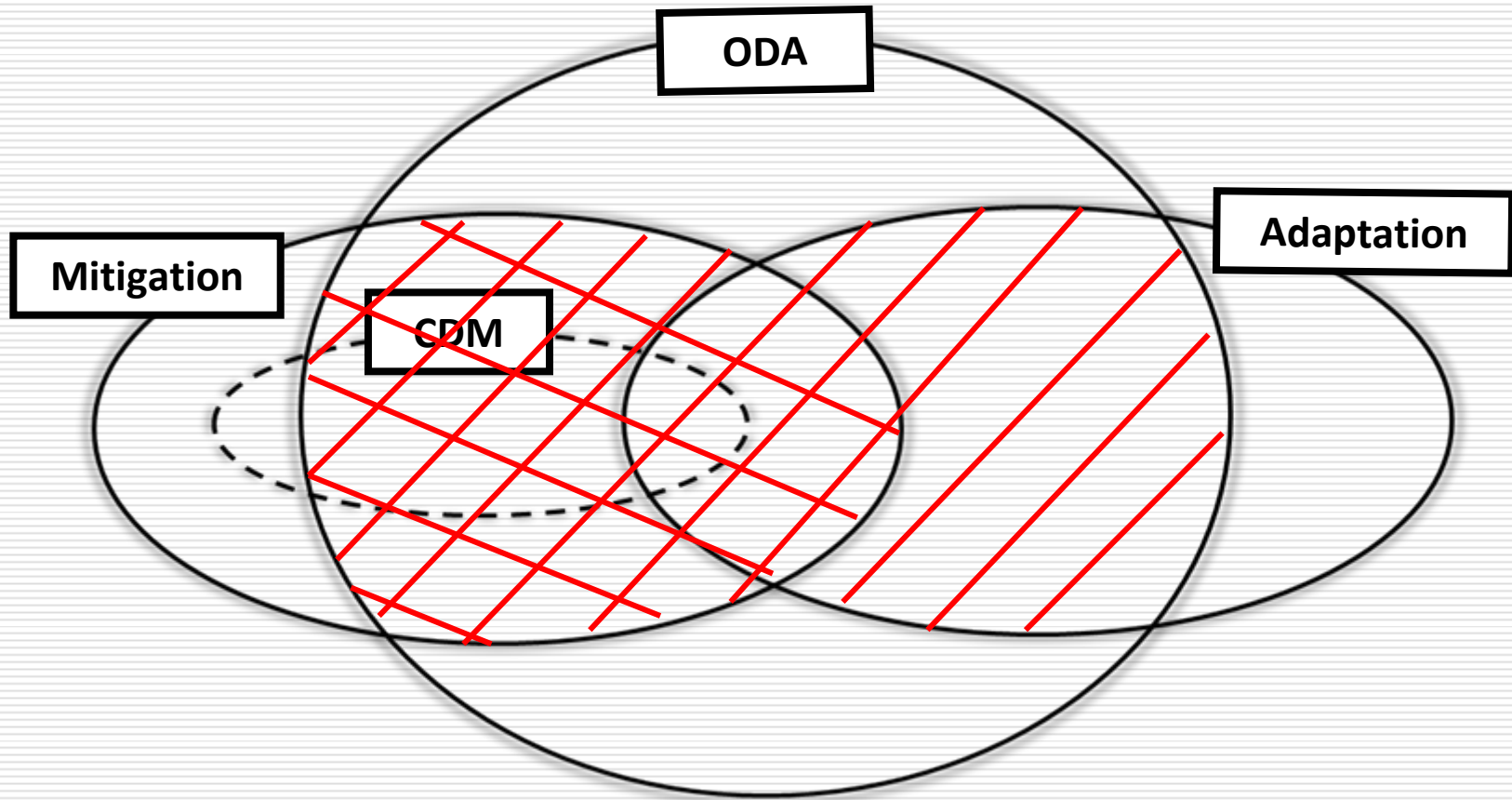
2007 Invitation to Cool Earth 50



2008 Cool Earth Partnership

# Climate Benefits of ODA

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# Continuum from Development to Climate Change

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*Addressing  
Developmental  
Needs*

*Mitigating  
Climate  
Change*

*Co-Benefit Approach by ODA*



“Climate benefits of development”



“Developmental benefits of climate”



# Study on the Urban Transport M/P and F/S in Ho Chi Minh Metropolitan Area

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- Project period: 08/2002-06/2004
- Developmental needs
  - Safety
  - Mobility
  - Economy
  - Local environment (air quality, noise)

$$CO_2 = (TransServ) \times (Pkm/TransServ) \times \sum_{mode} (Vkm/Pkm \times Fuel/Vkm \times CO_2EF/Fuel)$$

	$CO_2$		(Moriguchi, 2008)
=	$TransServ$	Demand management	Mobility change
×	$Pkm/TransServ$	Improvement of accessibility	
×	$\sum_{mode}$	Modal shift	
×	$Vkm/Pkm$	Improvement of load factor	
×	$Fuel/Vkm$	Fuel efficiency	Technology (+ soft measure)
×	$CO_2EF/Fuel$	Low carbon energy	

# Climate Benefits of the JICA Study on the Urban Transport for HCM

	<i>Some of the components proposed by the JICA Study</i>
<i>TransServ</i>	Demand management Integration with City planning
$P_{km} / TransServ$	Land use planning Allocation of road space by types of transport mode
$\sum_{mode}$	Modal shift to public transport (bus) Non-motorized transport (walking and cycling)
$V_{km} / P_{km}$	Increase of bus capacity
$Fuel / V_{km}$	Driver behavior training (eco-driving)
$CO_2EF / Fuel$	



# Climate Benefits of the Pilot Project on Tran Hung Dao Street, HCM

	<i>Components of the Pilot Project</i>
$P_{km} / TransServ$	Improvement of bus service: Bus priority lanes Accessibility to bus service, etc Traffic management: Regulation of motorcycle traffic Prohibition of on-street parking, etc
$\sum_{mode}$	Modal shift to bus service
$V_{km} / P_{km}$	Increase of bus capacity

# Co-benefit Approach

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- ❑ Engaging developing countries into mitigation actions

- ❑ Quantification of co-benefits

“Mitigation actions by developing countries in the context of sustainable development ... in a measurable, reportable and verifiable manner”

(Bali Action Plan)

- ❑ Ultimate objective of the UNFCCC

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