

**3R  
Knowledge  
Hub**

**dBase  
System/Management**

**An Initiative through Inclusive  
Partnership**

**ADB, AIT, UNEP, UNESCAP**

2<sup>nd</sup> Asia 3R Conference  
18 – 19 March 2008, Japan

3rkh Secretariat  
UNEP RRC.AP



# 3R Reduce, Reuse, Recycle KNOWLEDGE HUB

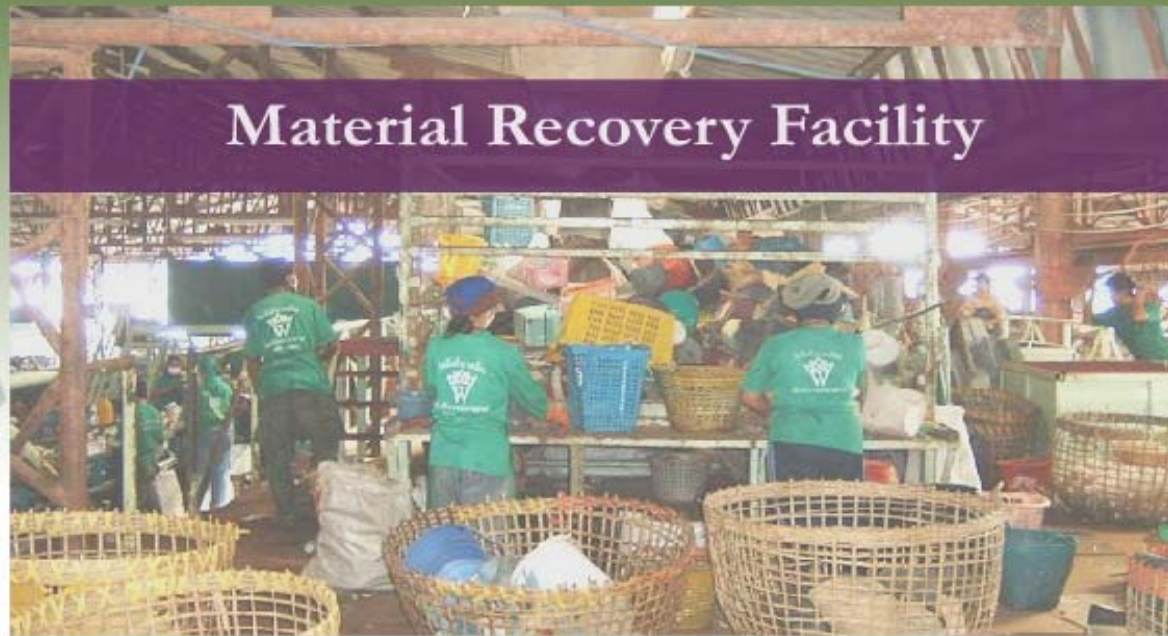
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".... The principle of reducing waste, reusing and recycling resources and products is often called the "3R".... "



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## About Us

### What is 3RKH?

The principle of **reducing** waste, **reusing** and **recycling** resources and products is often called the "3R". 3RKH is the Knowledge Hub where information and resources related to implement such activities are;

- Created, collected and stored for easy retrieval.
- Shared, enriched and disseminated,
- Monitored.

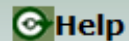
### History

As a follow up, the 3R Initiative was officially launched at the 3R Ministerial Conference hosted by the Government of Japan in April 2005, with an aim to promote global action on 3R. In March 2006, Senior Officials Meeting (SOM) on 3R was organized in Japan resulting in strong commitment of governments and other stakeholders to implement 3R at local, national, and regional level.

The Asian Development Bank (ADB) approved Technical Assistance for Establishment of Regional Knowledge Hubs (RETA 6295) to establish regional knowledge hubs.

During May – July 2006, ADB, Asian Institute of Technology (AIT), UNEP Regional Resource Centre for Asia and the Pacific (UNEP RRC.AP), and United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP) have discussed and agreed to begin the establishment of a joint regional knowledge hub on 3R (3RKH) by the support providing from the above technical assistance. In this regard, a Letter of Intent (LoI) on 'The Establishment of Regional Knowledge Hub on Reduce, Reuse and Recycle (3Rs)' was signed by each representative among ADB, AIT, UNEP, and UNESCAP on 7 August 2006.





## Help

### The Reduce, Reuse and Recycle Knowledge Hub

The pages of this site could be viewable with Microsoft Internet Explorer (<http://www.microsoft.com/windows/products/winfamily/ie/default.mspx>), Netscape Navigator (<http://browser.netscape.com/downloads/>), Mozilla Firefox (<http://www.firefox3-0.com/en/>), Opera (<http://www.opera.com/download/>) and Safari (<http://www.apple.com/safari/>). But best viewing experience is expectable on Microsoft Internet Explorer with the screen resolution of 1024 X 786 pixels.

### Material of the contents

Most of the materials in this knowledge hub are in Portable Document Format (PDF) File type. User may download and open it using PDF reader such as Adobe Acrobat Reader ([www.adobe.com/products/acrobat/readstep2.html](http://www.adobe.com/products/acrobat/readstep2.html)), XPDF ([www.foolabs.com/xpdf/download.html](http://www.foolabs.com/xpdf/download.html)). This site is managed using the Content Management System (CMS) so all of the uploaded data, information and knowledge packages such as case studies, best/good practices, Lessons-learnt are stored in a database and searchable using the key words on specific waste type such as e-waste, municipal waste etc., or type of functionalities such as reduce, reuse or recycle or by area coverage of the materials such as report of Thailand or report of South Asia etc.

### Focus Areas

This knowledge hub is currently focusing on three areas of the waste which are considered as emerging issues of the region by the inception workshop. They are **1/e-waste**, **2/Medical waste** and **3/Urban waste**.

### The following types of Documents/Publications are available in this knowledge hub.

- Assessment Reports
- Best Practices
- Case studies
- Conference Proceedings
- Journals
- Lessons learnt
- Manuals/Guidelines
- Periodicals
- Policy Briefs
- Publications

### Normal browsers and registered users

The content of this knowledge hub is open to all normal user and use of the material downloaded from this web site is under the individual condition of materials. Some of the material is open access and some of them need to get priority to use the material.

The interested users who have expertise on any of waste related areas may register as 3R expert or Researcher and you may receive the newsletter about the 3R related news regularly. Also it is expectable to the opportunities to take part in the relevant exercises in possible collaboration activities in the region. This 3RKH site also provide the calendar of the events in the region which are related to 3R and also waste.

**Functionalities**

- Reduce
- Reuse
- Recycle

**Focus Areas**

- e-Waste
- Medical Waste
- Urban Waste

**Documents/Publications**

- Assessment Reports
- Best Practices
- Case studies
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- Publications

**Sub Regions**

- Africa
- Central Asia
- East Asia
- Europe
- North America
- ▶ Northeast Asia
- South America
- ▶ South Asia
- ▶ Southeast Asia
- ▶ South Pacific

**Calendar of Events**

<i>Duration</i>	<i>Place</i>	<i>Title</i>	<i>Host</i>
September 2008	Bali, Indonesia	SBC COP9	Basel-related
7-9 July 2008	Hokkaido, Japan	G8 Summit in Japan	G8/Japanese government
25-27 May 2008	Japan	G8 Environmental Ministers Meeting	G8/MOEJ
17-19 March 2008	Tokyo, Japan	Asia 3R Conference	MOEJ
28-29 Feb 2008	Singapore	The First Meeting of Thematic Working Group on Solid and Hazardous Waste	National Environment Agency (NEA) Singapore, supported by MOEJ, and jointly organized by UNEP and WHO
February 2008		OECD International Conference on Material Flow and Resource Productivity	OECD and UNEP/DTIE
January 2008	Tokyo, Japan	Asian Network for the Prevention of the Illegal Transboundary Movement of Hazardous Wastes	MOEJ; Basel-related
Late November- Early December 2007(possibly in early 2008)	China	Internationally harmonized approach to development of selected policy instruments to address the e-waste problems in AP region	UNESCAP and China NDRC/CNIS
30 November - 2 December 2007		TEMM9	
November 2007	Tokyo, Japan	Japan-China Waste Trade Regulation Seminar	Basel-related
11-14 November 2007	Bali, Indonesia	Regional Enforcement networking to improve compliance with MEA that include trade restriction	Basel-related
7-9 November 2007	Oakayama, Japan	The 3rd Expert Meeting on Solid Waste Management in Asia and Pacific Islands	MOEJ and Japan Association of Waste Management Experts
Early November	Berlin, Germany	Resource efficiency and Factor X	WIUPPERTAL INSTITUTE FOR

- ▶ 3R Experts/Researchers
- ▶ Useful Links
- ▶ Calendar of Events
- ▶ Project Team

**Search**


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- Request new password

**\* Note**

For uploading data and posting on discussion forum, you need to login to the web site.

**Functionalities**

- Reduce
- Reuse
- Recycle

**Focus Areas**

- e-Waste
- Medical Waste
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- ▶ South Asia
- ▶ Southeast Asia
- ▶ South Pacific

**3R Experts/Researchers**

Please register here

First Name	Last Name	Position	Organization Name
A.T.M. Nurul	Amin	Professor	Asian Institute of Technology
Abu Hasnat Md. Maqsood	Sinha	Co-founder and Executive Director	Waste Concern
Adisak	Thongkaimook	Deputy Permanent Secretary	Ministry of Natural Resources and Environment
Amar	Manandhar	Executive Director	Society for Environment and Economic Development Nepal
Anand	Bhide		NIL
Animesh	Dutta	Assisatnt Professor	Asian Institute of Technology
Babu	Alappat	Associate Professor	IIT Delhi
Belinda	Yuen	Associate Professor	National University of Singapore
Chart	Chiemchaisri	Associate Professor	Kasetsart University
Chengay	Chengay	Deputy Executive Engineer	Construction Development Board
Christian	Zurbrugg	Head of Department	Eawag/Sandec
Ernest	Lowe	Director	Indigo Development
Guomei	Zhou	Deputy Director General of Institute	Institute for International Environmental Policies, Policy Research Center of SEPA of China
Haruo	Matsumura	Diector of International Cooperation	Japan Industrial Waste Technology Center
Heng	Nareth	Department Director	
Hiroki	Hashizume	Director, Secretariat	Asia-Pacific Network for Global Change Research
Juan	Echanove	Environment and sustainable development co-ordinator	European Commission
K E	Seetharam	Pr Water and Urban Dev Specialist	Asian Development Bank Manila
Kalvakuntla	Jeevan Rao	Professor	ANGRAuniversity
Kanoksak	Eam-o-pas	Assistant Professor	Department of Mechanical Engineering, Faculty of Engineering, Mahidol Univesity
Kanokkarn	Changyong	Director	United Nations Center for

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# Regional Level

# 3RKH



Coverage :  
Asia and Pacific

- Future : room for partners**
- Inter-Governmental Bodies
  - International Agencies
  - Private Sector
  - NGOs - INGOs
  - Academic and Research



# Subregional Level

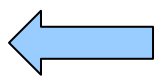
## TWGW



**Coverage :**  
 South East Asia  
 North East Asia

**Future : room for partners**

- Different Sectors in Government (Industry, transport etc.)
- Civil Societies (Youth, women)





## 3R Strategy



# Thank You

## 3RKH Team

[www.3rkh.net](http://www.3rkh.net)

