Country Operations Business Plan

March 2018

People’s Republic of China
2018–2020

This document is being disclosed to the public in accordance with ADB's Public Communications Policy 2011.

Asian Development Bank
CURRENCY EQUIVALENTS
(as of 27 February 2018)

Currency unit – yuan (CNY)
CNY1.00 = $0.1583
$1.00 = CNY6.3159

ABBREVIATIONS

ADB – Asian Development Bank
COBP – country operations business plan
CPS – country partnership strategy
OCR – ordinary capital resources
PRC – People’s Republic of China
TA – technical assistance

NOTE
In this report, "$" refers to United States dollars.

<table>
<thead>
<tr>
<th>Vice-President</th>
<th>Stephen Groff, Operations 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Director General</td>
<td>Indu Bhushan, East Asia Department (EARD)</td>
</tr>
<tr>
<td>Director</td>
<td>Benedict Bingham, People’s Republic of China Resident Mission, EARD</td>
</tr>
<tr>
<td>Team leader</td>
<td>Marzia Mongiorgi-Lorenzo, Principal Country Specialist, EARD</td>
</tr>
<tr>
<td>Team members</td>
<td>Robert Guild, Director, EARD</td>
</tr>
<tr>
<td></td>
<td>Sujata Gupta, Director, EARD</td>
</tr>
<tr>
<td></td>
<td>Nan Hua, Operations Assistant, EARD</td>
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<td></td>
<td>Sangay Penjor, Director, EARD</td>
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<td></td>
<td>Ying Qian, Director, EARD</td>
</tr>
<tr>
<td></td>
<td>Junmei Yang, Senior Programs Officer, EARD</td>
</tr>
<tr>
<td></td>
<td>Xiaoyan Yang, Senior Programs Officer, EARD</td>
</tr>
<tr>
<td></td>
<td>Qingfeng Zhang, Director, EARD</td>
</tr>
</tbody>
</table>

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I. CONSISTENCY OF BUSINESS PLAN WITH COUNTRY PARTNERSHIP STRATEGY

1. The country operations business plan (COBP), 2018–2020 for the People’s Republic of China (PRC) is consistent with the strategic priorities of the Asian Development Bank (ADB) country partnership strategy (CPS), 2016–2020 for the PRC, the priorities of the government’s 13th Five-Year Plan, 2016–2020, and ADB’s strategic priorities as outlined in the Midterm Review of Strategy 2020. It was prepared based on agreements reached during the country programming mission in Yueyang, Hunan Province, in October 2017.

2. The COBP builds on past efforts to incorporate innovative elements, add value, leverage finance and knowledge, and contribute to capacity development of human resources in the PRC. It focuses on innovation and high-impact technology; fostering of regional and global public goods such as pollution control and climate change mitigation and adaptation; promotion of equal access to services and environmentally sustainable development; reduction of rural–urban disparities and promotion of international cooperation and regional connectivity, trade, and investments (Appendix 1 and 2). The COBP also reinforces the vision to deepen the partnership between the PRC and ADB in the area of knowledge and to share knowledge solutions created through ADB operations in the PRC with other developing member countries for enhanced development impact in the PRC and Asia and the Pacific.

II. INDICATIVE RESOURCE PARAMETERS

3. The PRC, a group C developing member country, is eligible for regular ordinary capital resources (OCR) lending. The indicative resources available for commitments during 2018–2020 for sovereign operations amount to $5.25 billion. The COBP 2018–2020 consists of 32 firm lending projects totaling $6.15 billion and eight standby lending projects for 2020 totaling $1.66 billion, both on a transitional approval basis reflecting an understanding reached at the country programming mission in October 2017 (Appendix 3, Table A3.1). These totals will be adjusted as the program transitions to commitments in 2018. Cofinancing and funding from other sources, including the regular OCR regional cooperation and integration set-aside, will also be explored.

4. Nonsovereign operations will continue to support environmental protection, climate change adaptation, inclusive growth, and regional cooperation with a focus on new business models and new technological solutions. Financing will be direct and through intermediaries and will target environmental solutions such as sustainable energy delivery, waste management and clean water, food safety and agricultural development, as well as social sector investments to meet basic human needs. Investments in the finance sector will focus on promoting the development of small and medium-sized enterprises, as well as leasing and supply-chain finance. Non-sovereign operations will also seek to expand support for reform-minded state-owned enterprises and greater synergies with sovereign operations.

5. The nonlending program for 2018–2020 (Appendix 3, Table A3.2) will enhance the design, preparation and readiness of the lending program and support knowledge creation, management and sharing, both within the PRC and with other developing economies. The TA program has a strong thematic focus, in line with the lending program and in response to the government’s priorities. The 2018 nonlending program consists of 29 TA projects with a total value of $14.3 million financed from ADB’s Technical Assistance Special Fund. Ten TA projects (total value: $7 million) are categorized as transaction TA, and 19 TA projects (total value: $7.3 million) as

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knowledge and support TA. ADB will seek to mobilize additional resources from other TA funds and facilities available to ADB, as well as TA cofinancing from other development partners.

6. The indicative 2018–2020 lending and nonlending pipelines are organized around the following four core themes that address the complex development issues of the PRC in a strategic way with high-value multisector programs:

a) **Environment and climate change.** This encompasses the two flagship programs, Beijing–Tianjin–Hebei air pollution control and Yangtze River Economic Belt, as well as sustainable urbanization, and other environment-related programs.

b) **Inclusive development.** This covers rural transformation, North-East revitalization, demographic transition (aging and education), and other social inclusion programs.

c) **Regional cooperation and integration.** This covers regional cooperation initiatives to support the participation of PRC provinces in ADB’s subregional programs (Central Asia Regional Economic Cooperation and Greater Mekong Subregion), the Belt and Road Initiative, and other regional integration activities by promoting regional connectivity, trade and investment, and regional public goods.

d) **Institution building.** This covers public sector management (e.g., public–private partnerships, central–local fiscal relations, eco-compensation), the finance sector (e.g., green finance and bond market), and other institution-building activities (e.g., legal and judicial reform).

7. The sector-specific allocation of resources in the 2018–2020 lending pipeline covers transport (24%); water and other urban infrastructure and services (24%); agriculture, natural resources, and rural development (22%); and energy (15%). Support to elderly care will account for 7%, support to industry and trade for 6%, and support to education for 2%.

8. Appendix 4 shows the indicative list of knowledge publications and events for 2018, as well as additional knowledge publications and events delivered in 2017 and innovation, advanced technology, and pilot initiatives to be implemented in 2018.

III. SUMMARY OF CHANGES TO LENDING AND NONLENDING PROGRAMS

9. Changes to the lending pipeline from the COBP, 2017–2019 were mainly the result of placing greater emphasis on multisector interventions for environment-related programs (such as YREB development and sustainable urbanization) and inclusive development (such as education and elderly care) with 10 new firm projects. Changes to the nonlending pipeline result from 17 new knowledge and support TA projects, and from carrying over two such TA projects from the 2017 program to 2018.

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## COUNTRY ASSISTANCE RESULTS AREAS

<table>
<thead>
<tr>
<th>Key Country Development Outcomes that ADB Contributes to</th>
<th>ADB</th>
<th>Indicative Resource Allocation in 2018–2020</th>
<th>Changes from Last COBP</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1. Agriculture, Natural Resources, and Rural Development</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Agricultural productivity and water use efficiency improved; participation of rural households in agricultural value chains increased.</td>
<td></td>
<td>$1,395 million, 22% of COBP, 2018–2020 envelope</td>
<td>Six new projects added at the request of the government, and two marker projects added as proposed by ADB.</td>
</tr>
<tr>
<td>Integrated water resources management</td>
<td>Sustainable land management</td>
<td>Agricultural and rural infrastructure</td>
<td>Information and communication technology application in rural areas</td>
</tr>
<tr>
<td>Rural finance</td>
<td>Climate smart agriculture</td>
<td>Climate change adaptation</td>
<td></td>
</tr>
<tr>
<td>$1,395 million, 22% of COBP, 2018–2020 envelope</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Six new projects added at the request of the government, and two marker projects added as proposed by ADB.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>2. Education</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skills and employability of graduates of post-secondary institutions improved.</td>
<td>Technical and vocational education and training</td>
<td>Curriculum development</td>
<td>School–industry partnerships</td>
</tr>
<tr>
<td>School rehabilitation and upgrades</td>
<td>System and policy reforms</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$130 million, 2% of COBP, 2018–2020 envelope</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Two new projects added at the request of the government, and one marker project added as proposed by ADB.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>3. Energy</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Energy efficiency increased and greenhouse gas emissions reduced; energy regulation system and low-carbon development strategies developed and implemented; and carbon-trading platforms established.</td>
<td>Renewable energy development</td>
<td>Emission reduction in industrial sector</td>
<td>Advanced technologies for low-emission fossil fuel</td>
</tr>
<tr>
<td>Low-carbon, energy-efficient urban energy system</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$900 million, 15% of COBP, 2018–2020 envelope</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No change.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>4. Health</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A three-tiered elderly care system (home, community, and institutional care) developed.</td>
<td>Development and implementation of elderly care policies</td>
<td>Planning and management of elderly care services</td>
<td>Elderly care infrastructure</td>
</tr>
<tr>
<td>Development of age-friendly cities</td>
<td>Development of health and elderly care services</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$400 million, 7% of COBP, 2018–2020 envelope</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No change.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Key Country Development Outcomes that ADB Contributes to

<table>
<thead>
<tr>
<th>Key Areas of Assistance</th>
<th>ADB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Support for small and medium-sized enterprises in border areas</td>
<td>$350 million, 6% of COBP, 2018–2020 envelope</td>
</tr>
<tr>
<td>Promotion of cross-border financial transactions and investments</td>
<td></td>
</tr>
<tr>
<td>Better efficiency for cross-border trade</td>
<td></td>
</tr>
<tr>
<td>Key infrastructure and services in border economic zones</td>
<td></td>
</tr>
<tr>
<td>Physical and informational connectivity across borders</td>
<td></td>
</tr>
</tbody>
</table>

### Economic growth potential on both sides of the border realized along economic corridors connecting the PRC with neighboring countries of the Greater Mekong Subregion and Central Asia.

### 6. Transport

A more efficient, safe, green, and sustainable transport system developed.

<table>
<thead>
<tr>
<th>Key Areas of Assistance</th>
<th>ADB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low-carbon transport</td>
<td>$1,469 million, 24% of COBP, 2018–2020 envelope</td>
</tr>
<tr>
<td>Sustainable public transport</td>
<td></td>
</tr>
<tr>
<td>Road safety</td>
<td></td>
</tr>
<tr>
<td>Multimodal passenger transport hubs</td>
<td></td>
</tr>
<tr>
<td>Freight logistics facilities</td>
<td></td>
</tr>
<tr>
<td>Energy-efficient technologies, emission control, and monitoring</td>
<td></td>
</tr>
<tr>
<td>Climate change adaptation</td>
<td></td>
</tr>
</tbody>
</table>

### 7. Water and Other Urban Infrastructure and Services

More green, inclusive, competitive, and smart small and medium-sized cities developed.

<table>
<thead>
<tr>
<th>Key Areas of Assistance</th>
<th>ADB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Improvement of urban environment</td>
<td>$1,506 million, 24% of COBP, 2018–2020 envelope</td>
</tr>
<tr>
<td>Solid-waste management</td>
<td></td>
</tr>
<tr>
<td>Flood protection</td>
<td></td>
</tr>
<tr>
<td>Climate-resilient city</td>
<td></td>
</tr>
<tr>
<td>Urban redevelopment</td>
<td></td>
</tr>
</tbody>
</table>

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**Notes:**
- **ADB** = Asian Development Bank, **COBP** = country operations business plan, **PRC** = People’s Republic of China.
- **Source:** Asian Development Bank estimates.
Table A2.1: Lending Approvals, 2016–2017

<table>
<thead>
<tr>
<th>Project/Program Name</th>
<th>Theme</th>
<th>Sub-theme</th>
<th>Sector</th>
<th>Poverty Targeting</th>
<th>Strategic Agendas and Drivers of Change</th>
<th>Division</th>
<th>Year of TRTA/PDA</th>
<th>Cost ($ million)</th>
<th>Co-finance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Quality Improvement in the Greater Beijing–Tianjin–Hebei Region—China National Investment and Guaranty Corporation’s Green Financing Platform</td>
<td>Env.</td>
<td>BTH</td>
<td>ENE, FIN TRA</td>
<td>GL</td>
<td>IEG, ESG GCD,PSD KNS, PAR</td>
<td>EAEN</td>
<td>2016</td>
<td>1,827</td>
<td>500</td>
</tr>
<tr>
<td>Henan Hebi Qihe River Environmental Improvement and Ecological Conservation</td>
<td>Env.</td>
<td>YREB</td>
<td>ANR,WUS</td>
<td>No</td>
<td>IEG, ESG EGM,KNS PSD</td>
<td>EAER</td>
<td>2014</td>
<td>325</td>
<td>150</td>
</tr>
<tr>
<td>Chongqing Integrated Logistics Demonstration</td>
<td>Env.</td>
<td>YREB</td>
<td>TRA</td>
<td>GL</td>
<td>IEG, ESG GCD,KNS RCI</td>
<td>EATC</td>
<td>2014</td>
<td>428</td>
<td>150</td>
</tr>
<tr>
<td>Jiangxi Xinyu Kongmu River Watershed Flood Control and Environmental Improvement</td>
<td>Env.</td>
<td>YREB</td>
<td>ANR,WUS</td>
<td>No</td>
<td>IEG, ESG EGM,GCD KNS, PAR</td>
<td>EAER</td>
<td>2015</td>
<td>300</td>
<td>150</td>
</tr>
<tr>
<td>Qinghai Haidong Urban Rural Eco Development</td>
<td>Env.</td>
<td>Sust. Urban</td>
<td>ANR,WUS</td>
<td>GL</td>
<td>ESG, IEG GCD</td>
<td>EASS</td>
<td>2014</td>
<td>234</td>
<td>150</td>
</tr>
<tr>
<td>Shaanxi Accelerated Energy Efficiency and Environment Improvement Financing Program</td>
<td>Env.</td>
<td>Sust. Urban</td>
<td>ENE</td>
<td>No</td>
<td>IEG, ESG KNS, PSD PAR</td>
<td>EAEN</td>
<td>2015</td>
<td>459</td>
<td>150</td>
</tr>
<tr>
<td>Fujian Farmland Sustainable Utilization and Demonstration</td>
<td>Env.</td>
<td>Other</td>
<td>ANR</td>
<td>No</td>
<td>IEG, ESG EGM,GCD PAR, PSD</td>
<td>EAER</td>
<td>2014</td>
<td>191</td>
<td>100</td>
</tr>
<tr>
<td>Shandong Groundwater Allocation and Protection</td>
<td>Env.</td>
<td>Other</td>
<td>ANR</td>
<td>No</td>
<td>KNS, IEG, ESG, SGE</td>
<td>EAER</td>
<td>2013</td>
<td>344</td>
<td>150</td>
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<tr>
<td>Public–Private Partnership Demonstration Program to Transform Local Government Delivery of Elderly Care Services (RBL)</td>
<td>Inc.</td>
<td>Dem. Trans.</td>
<td>HLT</td>
<td>GI</td>
<td>IEG, GCD KNS, PAR</td>
<td>EASS</td>
<td>2015</td>
<td>128</td>
<td>50</td>
</tr>
<tr>
<td>Ningxia Liupanshan Poverty Reduction Rural Road Development</td>
<td>Inc.</td>
<td>Rural Trans.</td>
<td>TRA</td>
<td>TI-G</td>
<td>IEG, GCD EGM, ESG</td>
<td>EATC</td>
<td>2014</td>
<td>266</td>
<td>100</td>
</tr>
<tr>
<td>Project/Program Name</td>
<td>Theme</td>
<td>Sub-theme</td>
<td>Sector</td>
<td>Poverty Targeting</td>
<td>Strategic Agendas and Drivers of Change</td>
<td>Division</td>
<td>Year of TRTA/PDA</td>
<td>Total</td>
<td>Regular OCR</td>
</tr>
<tr>
<td>------------------------------------------------------------------------------------</td>
<td>-------</td>
<td>-----------</td>
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<td>----------------------------------------</td>
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</tr>
<tr>
<td>Guangxi Regional Cooperation and Integration Promotion Investment Program (MFF) –</td>
<td>Env.</td>
<td>BTH</td>
<td>ENE,WUS, ANR, TRA</td>
<td>No</td>
<td>ESG, IEG PSD, KNS GCD, PAR</td>
<td>EAEN</td>
<td>2017</td>
<td>2,037</td>
<td>499</td>
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<tr>
<td>Tranche 1 Total</td>
<td>Env.</td>
<td>YREB</td>
<td>ANR</td>
<td>TI-G</td>
<td>IEG, ESG GCD, EGM KNS, PSD</td>
<td>EAER</td>
<td>2016</td>
<td>339</td>
<td>150</td>
</tr>
<tr>
<td>Xinjiang Changji Integrated Urban–Rural Infrastructure Demonstration</td>
<td>Env.</td>
<td>Sust. Urban.</td>
<td>ANR, TRA WUS, EDU, ENE</td>
<td>GI</td>
<td>IEG, ESG RCI, PSD</td>
<td>EASS</td>
<td>2015</td>
<td>255</td>
<td>150</td>
</tr>
<tr>
<td>Shandong Spring City Green Modern Trolley Bus Demonstration Heilongjiang Green Urban</td>
<td>Env.</td>
<td>Sust. Urban.</td>
<td>TRA</td>
<td>GI</td>
<td>IEG, ESG GCD, KNS IEG, ESG GCD, KNS</td>
<td>EATC</td>
<td>2016</td>
<td>422</td>
<td>150</td>
</tr>
<tr>
<td>and Economic Revitalization</td>
<td>Env.</td>
<td>Sust. Urban.</td>
<td>ANR, WUS, TRA, IND FIN</td>
<td>GI</td>
<td>IEG, ESG GCD, KNS IEG, ESG GCD, KNS</td>
<td>EASS</td>
<td>2015</td>
<td>1,021</td>
<td>310</td>
</tr>
<tr>
<td>Shanxi Urban–Rural Water Source Protection and Environmental Improvement</td>
<td>Env.</td>
<td>Other</td>
<td>ANR,TRA, WUS</td>
<td>No</td>
<td>IEG, ESG GCD, EGM</td>
<td>EAER</td>
<td>2014</td>
<td>152</td>
<td>100</td>
</tr>
<tr>
<td>Development</td>
<td>Inc.</td>
<td>Dem. Trans.</td>
<td>HLT, EDU</td>
<td>GI</td>
<td>IEG, GCD PAR</td>
<td>EASS</td>
<td>2015</td>
<td>180</td>
<td>100</td>
</tr>
<tr>
<td>Guangxi Modern Technical and Vocational Education and Training Development Program</td>
<td>Inc.</td>
<td>Dem. Trans.</td>
<td>EDU</td>
<td>GI</td>
<td>IEG, RCI GCD, KNS PAR</td>
<td>EASS</td>
<td>2016</td>
<td>10,022</td>
<td>250</td>
</tr>
<tr>
<td>(RBL)</td>
<td>Inc.</td>
<td>Rural Trans.</td>
<td>TRA</td>
<td>GI</td>
<td>IEG, ESG EATC</td>
<td>EATC</td>
<td>2008</td>
<td>860</td>
<td>180</td>
</tr>
</tbody>
</table>
### Strategic Agendas and Drivers of Change

<table>
<thead>
<tr>
<th>Project/Program Name</th>
<th>Theme</th>
<th>Sub-theme</th>
<th>Sector</th>
<th>Poverty Targeting</th>
<th>Drivers of Change</th>
<th>Division</th>
<th>Year of TRTA/PDA</th>
<th>Cost ($ million)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shanxi Inclusive Agriculture Value Chain Development</td>
<td>Inc. Dev.</td>
<td>Dem. Trans.</td>
<td>ANR</td>
<td>TI-G</td>
<td>IEG, ESG GCD, KNS PAR, PSD EGM</td>
<td>EAER</td>
<td>2016</td>
<td>148</td>
</tr>
</tbody>
</table>

| Total | | | | | | | | 15,436 |

**ADB =** Asian Development Bank; **ANR =** agriculture, natural resources, and rural development; **BTH =** Beijing–Tianjin–Hebei; **Dem. =** demographic; **EAEN =** Energy Division; **EAER =** Environment, Natural Resources and Agriculture Division; **EAPF =** Public Management, Financial Sector and Regional Cooperation Division; **EASS =** Urban and Social Sectors Division; **EATC =** Transport Division; **EDU =** education; **ENE =** energy; **EGM =** effective gender mainstreaming; **Env. =** environment and climate change; **ESG =** environmentally sustainable growth; **FIN =** finance; **GCD =** governance and capacity development; **GI =** general intervention; **Gov’t =** government; **HLT =** health; **IEG =** inclusive economic growth; **Inc. Dev. =** inclusive development; **IND =** industry and trade; **KNS =** knowledge solutions; **MFF =** multitranche financing facility; **OCR =** ordinary capital resources; **PAR =** partnerships; **PDA =** project design advance; **PSD =** private sector development; **RBL =** results-based lending; **RCI =** regional cooperation and integration; **Sust. Urban. =** sustainable urbanization; **TI-G =** targeted intervention–geographic dimensions of inclusive growth; **TRA =** transport; **Trans. =** transformation; **TRTA =** transaction technical assistance; **WUS =** water and other urban infrastructure services; **YREB =** Yangtze River Economic Belt


*a The government's financing amounts are estimates.*
## INDICATIVE ASSISTANCE PIPELINE

### Table A3.1: Lending Products, 2018–2020

<table>
<thead>
<tr>
<th>Project/Program Name</th>
<th>Theme</th>
<th>Sub-theme</th>
<th>Sector</th>
<th>Poverty Targeting</th>
<th>Strategic Agendas and Drivers of Change</th>
<th>Division</th>
<th>Year of TRTA/PDA</th>
<th>Total Cost ($ million)</th>
<th>ADB</th>
<th>Gov’t</th>
<th>Co-finance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Quality Improvement in the Greater BTH for Shandong</td>
<td>Env.</td>
<td>BTH</td>
<td>ENE</td>
<td>No</td>
<td>ESG, IEG, PSD, KNS</td>
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<td>Poverty Targeting</td>
<td>Strategic Agendas and Drivers of Change</td>
<td>Division</td>
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<td>Total Cost ($ million)</td>
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ADB = Asian Development Bank; ADF = Asian Development Fund; ANR = agriculture, natural resources, and rural development; COL = concessional OCR lending; Dem. = demographic; EAEN = Energy Division; EAER = Environment, Natural Resources and Agriculture Division; EAO = Office of the Director General; EAPF = Public Management, Financial Sector and Regional Cooperation Division; EASS = Urban and Social Sectors Division; EATC = Transport Division; EDU = education; ENE = energy; ENV = environment and climate change; ESG = environmentally sustainable growth; FIL = financial intermediation loan; GCD = governance and capacity development; GEM = gender equity and mainstreaming; GI = general intervention; Gov’t = government; ICT = information and communication technology; HLT = health; IEG = inclusive economic growth; Inc. Dev. = inclusive development; IND = industry and trade; KNS = knowledge solutions; MFF = multitranche financing facility; OCR = ordinary capital resources; PDA = project design advance; PPP = public–private partnership; PSD = private sector development; RCI = regional cooperation and integration; Sust. Urban. = sustainable urbanization; TBD = to be determined; TRA = transport; Trans. = transformation; TRTA = transaction technical assistance; WUS = water and other urban infrastructure services; YREB = Yangtze River Economic Belt.


a The government’s financing amounts for the 10 newly proposed projects are estimates, using the ADB rate of $1 = CNY 6.3 on 31 January 2018.

b Out of 2 tranches for a total of $420 million.
## INDICATIVE ASSISTANCE PIPELINE

### Table A3.2: Nonlending Products and Services, 2018–2020

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<th>Sub-theme</th>
<th>Sector</th>
<th>Division</th>
<th>Assistance Type</th>
<th>Sources of Funding</th>
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<th>Source</th>
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<th>Total ($'000)</th>
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2019/2020

a. TRTA

Chishui River Transprovincial Environmental and Eco-compensation

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Yangtze River Inland Waterway Demonstration

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Provincial University Transformation

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b. KSTA

Research on Renewable Resource Utilization and Disposal Compensation Mechanism

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Scoping work on zero waste manufacturing for future possible operations in the area

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Shanxi Changzhi Industrial Transformation and Economic Upgrading

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ADB = Asian Development Bank; ADF = Asian Development Fund; Admin. = administration; ANR = agriculture, natural resources, and rural development; COL = concessional OCR lending; Dem. = demographic; EAEN = Energy Division; EAER = Environment, Natural Resources and Agriculture Division; EAO = Office of the Director General; EAPF = Public Management, Financial Sector and Regional Cooperation Division; EASS = Urban and Social Sectors Division; EATC = Transport Division; ENE = energy; ENV = environment and climate change; FIN = finance; FYP = five-year plan; Gov’t = government; IND = industry; Inst. Build. = institution building; KSTA = knowledge and support technical assistance; MUL = multisector; OCR = ordinary capital resources; PPP = public–private partnership; PRCM = People’s Republic of China Resident Mission; PSM = public sector management; RCI = regional cooperation and integration; Sust. Urban. = sustainable urbanization; TA = technical assistance; TASF = Technical Assistance Special Fund; TRA = transport; Trans. = transformation; TRTA = transaction technical assistance; WUS = water and other urban infrastructure services.

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**Total number of publications = 31**

**Total number of events = 9**

ADB = Asian Development Bank; ASEAN = Association of Southeast Asian Nations; BTH = Beijing–Tianjin–Hebei; CAREC = Central Asia Regional Economic Cooperation; CPRM = country portfolio review mission; EARD = East Asia Regional Department; ICT = information and communication technology; PRC = People’s Republic of China; TVET = technical and vocational education and training.

Note: “Publications” may include databases, multimedia, and other forms of documentation. “Events” may include event organization and training or capacity development.

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<td>Growth Take-off in the People’s Republic of China</td>
<td>Economics</td>
<td>Event</td>
<td>ADBI</td>
<td></td>
</tr>
<tr>
<td>Special Economic Zones as Catalysts for Economic Corridors, Value Chains and Production Networks, People's Republic of China, Shanghai</td>
<td>Economics, poverty, regional cooperation and integration, industry and trade</td>
<td>Event</td>
<td>EARD</td>
<td></td>
</tr>
<tr>
<td>KfW, ADB sign cofinancing MOU for TVET program in the PRC</td>
<td>Education</td>
<td>Event</td>
<td>OCO</td>
<td></td>
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<tr>
<td>ADB showcases Green Financing Platform at East Asia Summit Clean Energy Forum</td>
<td>Energy</td>
<td>Event</td>
<td>EARD</td>
<td></td>
</tr>
<tr>
<td>ADB holds Yangtze River Economic Belt Workshop on Eco-compensation Financing</td>
<td>Environment</td>
<td>Event</td>
<td>EARD</td>
<td></td>
</tr>
<tr>
<td>PRCM: ADB sponsors symposium on judicial protection of biodiversity</td>
<td>Environment</td>
<td>Event</td>
<td>EARD</td>
<td></td>
</tr>
<tr>
<td>PRC, ADB co-host workshop on emissions trading system</td>
<td>Environment, energy</td>
<td>Event</td>
<td>EARD</td>
<td></td>
</tr>
<tr>
<td>ADB-Tsinghua Environment and Development Forum</td>
<td>Environment, urban development</td>
<td>Event</td>
<td>EARD</td>
<td></td>
</tr>
<tr>
<td>Distinguished Speaker Seminar: The Transition of Small and Medium-Sized Chinese Banks in the New Era</td>
<td>Finance</td>
<td>Event</td>
<td>ADBI</td>
<td></td>
</tr>
<tr>
<td>Public Debt and Private Firm Funding: Evidence from Cities in the People’s Republic of China</td>
<td>Finance</td>
<td>Event</td>
<td>ADBI</td>
<td></td>
</tr>
<tr>
<td>ADB participates in International Green Finance Forum in the PRC</td>
<td>Finance, economics, environment</td>
<td>Event</td>
<td>EARD</td>
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<tr>
<td>Seminar: Innovation in Managing Local Government Debt—the Case of the People’s Republic of China</td>
<td>Governance and public sector management</td>
<td>Event</td>
<td>ADBI</td>
<td></td>
</tr>
<tr>
<td>International Forum: Developing and Sharing Governance Solutions to Reduce Poverty</td>
<td>Governance and public sector management, poverty</td>
<td>Event</td>
<td>EARD</td>
<td></td>
</tr>
<tr>
<td>Title of Publication or Event</td>
<td>Subject</td>
<td>Type</td>
<td>Department or Sector Group or Thematic Group</td>
<td>Technical Assistance</td>
</tr>
<tr>
<td>------------------------------------------------------------------------------------------------</td>
<td>----------------------------------------------</td>
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<td>----------------------------------------------</td>
<td>---------------------</td>
</tr>
<tr>
<td>PRC country portfolio review workshop held in Beijing</td>
<td>transport</td>
<td>Event</td>
<td>EARD</td>
<td></td>
</tr>
<tr>
<td>11th ASEAN–PRC Forum on Social Development and Poverty Reduction</td>
<td>Knowledge management</td>
<td>Event</td>
<td>EARD</td>
<td></td>
</tr>
<tr>
<td>Consultation Workshop on New Long-Term CAREC Strategy (People’s Republic of China)</td>
<td>Poverty, social development and protection</td>
<td>Event</td>
<td>EARD</td>
<td></td>
</tr>
<tr>
<td>National Consultation and Knowledge Sharing Workshop on Regional Cooperation and Integration</td>
<td>Regional cooperation and integration</td>
<td>Event</td>
<td>EARD</td>
<td></td>
</tr>
<tr>
<td>ADB joins Belt and Road Roundtable and Forum at World Transport Convention in the PRC</td>
<td>Transport</td>
<td>Event</td>
<td>EARD</td>
<td></td>
</tr>
<tr>
<td>PRCM: ADB supports efficient and compact land use in the PRC</td>
<td>Urban development, agriculture and natural resources</td>
<td>Event</td>
<td>EARD</td>
<td></td>
</tr>
<tr>
<td>President Nakao pledges strong support for PRC reforms - China Development Forum 2017</td>
<td>Governance, public sector management, economics</td>
<td>Event</td>
<td>EARD</td>
<td></td>
</tr>
</tbody>
</table>

**Total number of publications = 22**

**Total number of events = 34**

ADB = Asian Development Bank; ADBI = Asian Development Bank Institute; ASEAN = Association of Southeast Asian Nations; CAREC = Central Asia Regional Economic Cooperation; CPRM = country portfolio review mission; CWRD = Central and West Asia Department; EARD = East Asia Regional Department; ERCD = Economic Research and Regional Cooperation Department; IED = Independent Evaluation Department; ICT = information and communication technology; MOU = memorandum of understanding; OCO = Office of Cofinancing Operations; PPP = public–private partnership; PRC = People’s Republic of China; TVET = technical and vocational education and training.

Note: “Publications” may include databases, multimedia, and other forms of documentation. “Events” may include event organization and training or capacity development. The table includes additional knowledge publications and events delivered outside the list of indicative knowledge publications and events in the 2017 country operations business plan.

## Table A4.3: Innovation, Advanced Technology, and Pilot Initiatives to be Implemented in 2018

<table>
<thead>
<tr>
<th>Item</th>
<th>Nature</th>
<th>Project Number</th>
<th>Sector or Theme</th>
<th>Division</th>
</tr>
</thead>
<tbody>
<tr>
<td>Promotion of Intelligent Transport Systems (Gui’an New Area, Guizhou)</td>
<td>TCH</td>
<td>P51044-005</td>
<td>TRA</td>
<td>EATC</td>
</tr>
<tr>
<td>Pilot-testing of greenhouse gas inventories (CAREC low-carbon cities RETA)</td>
<td>PLT</td>
<td>RETA 9308</td>
<td>TRA, ENE</td>
<td>EATC</td>
</tr>
<tr>
<td>Promotion of advanced railway safety equipment (E’Mei–Miyi)</td>
<td>TCH</td>
<td>P51044-006</td>
<td>TRA</td>
<td>EATC</td>
</tr>
<tr>
<td>Green Finance Catalyzing Facility for Shandong (MFF and FI)</td>
<td>INO, PLT, TCH</td>
<td>P51194-001</td>
<td>FIN, WUS</td>
<td>EAPF</td>
</tr>
<tr>
<td>Pilot Implementation of River Health Monitoring and Evaluation</td>
<td>PLT, TCH</td>
<td>P51005-002</td>
<td>ANR</td>
<td>EAER</td>
</tr>
</tbody>
</table>

**Total number of innovation, advanced technology, and pilot initiatives = 5**

ANR = agriculture, natural resources, and rural development; CAREC = Central Asia Regional Economic Cooperation; EAER = Environment, Natural Resources and Agriculture Division; EAPF = Public Management, Financial Sector and Regional Cooperation Division; EATC = Transport Division; ENE = energy; FI = financial intermediary; FIN = finance; INO = innovation; MFF = multitranche financing facility; PLT = pilot initiative; RETA = regional technical assistance; TCH = advanced technology; TRA = transport; WUS = water and other urban infrastructure and services.

Source: Asian Development Bank