

UNITED NATIONS ECONOMIC COMMISSION FOR EUROPE

Creating a Conducive Environment for Higher Competitiveness and Effective National Innovation Systems

*Lessons Learned from
the Experiences of
UNECE Countries*



UNITED NATIONS

United Nations Economic Commission for Europe

**Creating a conducive environment for
higher competitiveness and effective
national innovation systems.**

***Lessons learned from the experiences
of UNECE countries***



UNITED NATIONS
New York and Geneva, 2007

NOTE

The designations employed and the presentation of the material in this publication do not imply the expression of any opinion whatsoever on the part of the Secretariat of the United Nations concerning the legal status of any country, territory, city or area, or of its authorities, or concerning the delimitation of its frontiers or boundaries.

ECE/CECI/3

Copyright © United Nations, 2007

All right reserved

Printed at United Nations, Geneva (Switzerland)

UNITED NATIONS PUBLICATIONS
<i>Sales No. 08 .II.E.3</i>
ISBN: 979-92-1-116982-9

FOREWORD

Knowledge and innovation are key factors for competitiveness and growth in the modern economy. Therefore policies seeking to create an environment conducive to the generation and diffusion of innovation are increasingly taking a central role in national and international policy debates. These issues feature prominently in the Programme of Work of the UNECE Subprogramme on Economic Cooperation and Integration. This *Comparative Review* was compiled in accordance with the Programme of Work of the UNECE Committee on Economic Cooperation and Integration (CECI) for 2007-2008 under the theme “Creating a supportive environment for innovative development and knowledge-based competitiveness” and the conclusions of the first meeting of the Team of Specialists on Innovation and Competitiveness Policies (TOS-ICP) session held in Geneva on 8-9 March 2007.

This *Comparative Review* provides an overview of the experiences in UNECE member countries in creating a conducive environment for the generation and diffusion of innovation and for achieving higher economic growth based on enhanced, innovation-driven competitiveness. It addresses various policy issues related to this topic, drawing from national experiences, good practices and lessons learned. It also draws some conclusions on what policymakers and other stakeholders can do more or better in order to facilitate the generation and diffusion of innovation and enhance innovation-based competitiveness.

The UNECE region includes countries at very different levels of their innovative capability. In accordance with the CECI mandate, the *Comparative Review* is mostly focused on the catching-up UNECE economies. Nevertheless, it has a broader focus on transnational learning, that is to say the transfer of good experiences and best practices across the whole UNECE region. It thus aims to contribute to improved level of understanding of the process of technology-based catching up and the policies facilitating this process. I hope that this publication will be useful for all stakeholders and practitioners in the innovation process as well as for policymakers in their efforts to promote knowledge-based development and higher competitiveness in their countries.



Marek Belka
Executive Secretary
United Nations Economic Commission for Europe

ACKNOWLEDGEMENTS

This *Comparative Review* was compiled in the context of the Programme of Work of the UNECE Team of Specialists on Innovation and Competitiveness Policies (TOS-ICP), which is part of the Programme of Work of the UNECE Subprogramme on Economic Cooperation and Integration. It draws on policy documents and other materials submitted to the UNECE by members of the TOS-ICP, as well as on other publicly available documents and materials.

A major substantive contribution to the *Review* by Slavo Radosevic, Professor of Industry and Innovation Studies, University College London, School of Slavonic and East European Studies, is gratefully acknowledged.

CONTENTS

ABBREVIATIONS.....	vi
EXECUTIVE SUMMARY.....	viii
INTRODUCTION	ix
 I. THE INSTITUTIONAL FRAMEWORK OF INNOVATION AND COMPETITIVENESS POLICIES: NATIONAL INNOVATION SYSTEMS.....	 1
 II. SETTING OBJECTIVES IN INNOVATION AND COMPETITIVENESS POLICIES.....	 9
A. Basic Conditions for the Success of Innovation and Competitiveness Policies.....	10
B. Identification of Policy Priorities and Foresight.....	13
C. Comprehensiveness, Relevance and Effectiveness of the Policy Mix	18
D. Building Systems of Incentives for Support from Key Constituencies.....	34
E. Is there Convergence in the Setting of Objectives?	37
 III. POLICY INSTRUMENTS TARGETING INNOVATION-BASED COMPETITIVENESS	 41
A. Policies Targeting the Absorptive Capacity	43
B. Policies Targeting the Generation of Knowledge.....	48
C. Policies Targeting the Diffusion of Innovation	54
D. Policies Targeting the Demand for Innovation	63
 IV. POLICY IMPLEMENTATION AND EVALUATION. LEARNING FROM GOOD PRACTICES.....	 73
A. Innovation Governance	73
B. Implementation of Innovation and Competitiveness Policies	78
C. Assessment of the Effects of Policies	85
D. Learning from Good Practices in Innovation and Competitiveness Policies	88
 GLOSSARY	 92

ABBREVIATIONS

CCU	Council on Competitiveness, Ukraine
CDTI	Centre for Industrial Technology Development
CECI	Centre for International Studies and Cooperation
CEPR	Centre for Economic Policy Research
CRADA	Co-operative Research and Development Agreement
CREST	Creativity in Science and Technology
ECSPF	Europe Central Asia Private and Financial Sector
EECCA	Eastern Europe, Caucuses and Central Asia
ER	Exchange Rate
ERTA	Economic Recovery and Tax Act (US)
EU	European Union
FDI	Foreign Direct Investment
GERD	Gross Expenditure on Research and Development
ICT	Information and Communication Technology
IMC	Israel Management Centre
IPR	Intellectual Property Rights
IPTS	Institute for Prospective Technology Studies
MIT	Massachusetts Institute of Technology
MOIT	Ministry of Industry, Trade and Labour
MOST	Ministry of Science and Technology
MNC	Multinational Corporation
NESTA	National Endowment for Science, Technology and the Arts
NIC	National Innovation Capacity
NIP	National Innovation Policy
NIS	National Innovation system
NMS	National Master Specifications
NOW	Netherlands National Research Council
NSF	National Science Foundation
NTBF	New Technology Based Firms
OCS	Office of the Chief Scientist
OECD	Organization for Economic Co-operation and Development
PROFIT	Programmes for Promoting Technological Innovation
RDT	Research, Development and Technology
R & D	Research and Development
R & E	Research and Experimentation
RAS	Russian Academy of Sciences
RTDI	Research and Technological Development and Innovation
RTO	Research Technology Organisations
SEE	South-Eastern European
SEZ	Special Economic Zones
SME	Small and Medium-sized Enterprises
S & T	Science and Technology
STEP	Sustainable Technology Education Programme
TEKES	Funding Agency for Technology and Innovation (Finland)

TEP	1st Hungarian Technology Foresight Programme
TLC	Transport Logistics Cluster
TRM	Technology Roadmap
TOS-ICP	Team of specialists on Innovation and Competitiveness Policies
TNC	TransNational Corporation
UNECE	United Nations Economic Commission for Europe
UNCTAD	United Nations Conference on Trade and Development
UNIDO	United Nations Industrial Development Organisation
VINNOVA	Swedish agency for Innovation Systems
WTO	World Trade Organisation
WEF	World Economic Forum
WEF GCR	World Economic Forum - Global Competitiveness Report

预览已结束，完整报告链接和二维码如下：

https://www.yunbaogao.cn/report/index/report?reportId=5_2265

