

TABLE OF CONTENTS

EXECUTIVE SUMMARY AND RECOMMENDATIONS	5
FOREWORD	7
INTRODUCTION	9
UNDERSTANDING SMART CITIES.....	9
VARIETY OF URBAN SETTLEMENTS IN EUROPE.....	9
POTENTIAL OF NEW TECHNOLOGIES	11
PURPOSE AND CONTENT OF THE ORIENTATION PAPER	12
WHAT ARE THE PROBLEMS AND CHALLENGES EUROPEAN CITIES FACE?	13
INCREASED UBRANIZATION	13
AGEING POPULATION	13
HIGH UNEMPLOYMENT.....	13
SOCIAL EXCLUSION	13
URBAN VIOLENCE/CRIME/PERSONAL SAFETY	14
INADEQUATE HOUSING STOCK	14
CLIMATE CHANGE, POLLUTION AND UNHEALTHY ENVIRONMENT	14
TRAFFIC CONGESTION AND INADEQUATE PUBLIC TRANSPORTATION	15
INSUFFICIENT SOLID WASTE DISPOSAL AND WASTE WATER MANAGEMENT	15
LOW SUPPORT FOR SUSTAINABLE URBAN DEVELOPMENT FROM REGIONAL AND STATE STRUCTURES	15
HOW CAN CITIES REACT AND BECOME SMARTER?	18
CITIZEN CENTRED CITY GOVERNANCE	18
GREENER AND MORE EFFICIENT UTILITIES MANAGEMENT (WATER, WASTE, ENERGY, BUILDINGS)	19
ENVIRONMENT FRIENDLY AND SAFER TRANSPORTATION	19
ENHANCED PUBLIC SAFETY	20
QUALITY EDUCATION	21
CLASS AND COST EFFECTIVE SOCIAL AND HEALTH CARE SERVICE	22
CONFORTABLE AND ATTRACTIVE TOURISM	22
WHAT EUROPEAN RESOURCES ARE AND WILL BE AVAILABLE?	24
OPPORTUNITIES OF COHESION POLICY AND STRUCTURAL FUNDS	24
POTENTIAL OF EU INNITIATIVES AND PILOT PROJECTS	26
RESOURCES OF TOMORROW	27
CONCLUSION	29
REFERENCES	31

ANNEX – SMARTER CITY CASE STUDIES 36

ALBUQUERQUE - BETTER AND FASTER REACTION TO CITIZEN’S REQUESTS 36

BEIJING - VIRTUAL FORBIDDEN CITY PROMOTING CULTURAL HERITAGE 38

CHESHIRE - AGENCY DELIVERING PERSON-CENTRED SOCIAL AND MEDICAL CARE 40

CHICAGO - REDUCING CRIME WITH DIGITAL VIDEO SURVEILLANCE 42

CORPUS CHRISTI - COST-EFFECTIVE MANAGEMENT OF UTILITY SERVICES 44

DUBUQUE - REDUCING WASTE WITH A SYSTEM OF SENSITIVE WATER METERS 46

EINDHOVEN - STRATEGY TO REDUCE TRAFFIC CONGESTION USING A FEE -BASED TRAFFIC MANAGEMENT SYSTEM 48

MOBILE - IMPROVING EDUCATION AND HELPING IDENTIFY, MONITOR AND ASSIST STUDENTS AT RISK 50

NEW YORK - RESPONDING TO CRIME WITH REAL TIME INFORMATION 52

PARMA - NEW GOVERNANCE SYSTEM INCLUDING A VIRTUAL CITY OFFICIAL 54

PILSEN - SMARTER GOVERNANCE OF MUNICIPAL RESOURCES 56

ROTTERDAM - RESPONDING TO CHANGES IN WATER CONDITIONS, FLOOD AND DROUGHT THREATS 58

SOMERSET - INNOVATIVE COLLABORATION ON SERVICE DELIVERY 60

STOCKHOLM - DYNAMIC TOLL SYSTEM BASED ON THE FLOW OF VEHICLES 62

VENICE - SYSTEM NAVIGATING TOURISTS AND ENABLING SMARTER TOURISM 64

WASHINGTON - SOFTWARE THAT MONITORS AND MANAGES TRANSPORTATION ASSETS 66