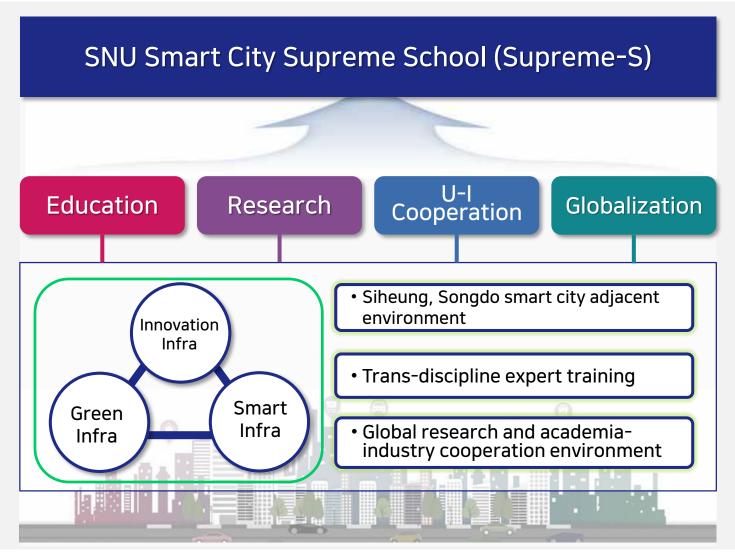


Contents_____

- 01 Introduction
- O2 Professors
- O3 Programs
- 04 Internal Regulations
- 05 Special Events
- 06 Q&A

Introduction

Purpose of establishment



Purpose of establishment

Structured discipline and frame for global innovation and academic convergence

Past

- Scattered technologies
- Weak ecosystem
- Unidisciplinary
- Top-down approach
- W/O Business model

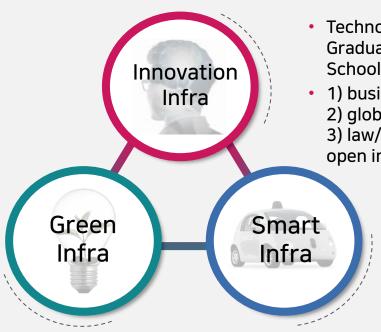
Trans-disciplinary education Past City

Future

- Converged technologies
- Strong ecosystem
- Transdisciplinary
- Bottom-up approach
- With Business model

Individual technology-oriented, Lack of self-sustaining ecosystem

Participatory department



- Graduate School of Environmental Studies, Department of Landscape Architecture and Rural System Engineering
- Smart city planning-modeling-economic evaluation

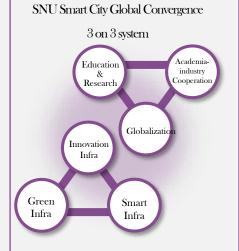
- Technology Management Economics and Policy, Graduate School of International Studies, School of Law
- 1) business/industry changes,
 - 2) global policy changes,
 - 3) law/regulation changes based on smart city open innovation

- Graduate School of Environmental Studies
- Development of core technology for smart city demand

Vision and Goal

AS IS (Benchmark global model) UC Berkeley iSchool Education Pittsburgh University SCI Transdisciplinary smart city education and research Research · Element technology focused · Theory-oriented curriculum Carnegie Mellon Metro 21 Cambridge Smart Infra & Const Academiaindustry Regional project-based smart city Cooperation convergence research · Urban design, engineering-based academia-industry cooperation Singapore - MIT (SMART) Stanford University (SCIGC) International joint research Globalization Sharing and exchange of human and material resources · Cooperation with global companies and hightech industries

TO BE (SNU Smart City Global Convergence)



- Transdisciplinary smart city edu
- Engineering, management, economy, law, policy, and humanities
- · Global open platform
- Building global network of smart city experts
- On-site training education
- Songdo smart city, Siheung smart city and so on

- Smart city global convergence education
- English based curriculum
- 'Convergence core class' and 'Convergence methodology class'
- Demand based curriculum
- Project based(5 practical, 5 problem-solving)
- Regional research and cooperation
- Smart city demonstration business
- Supreme research quality
- Diversification of research fields(SCIE, SSCI, A&HCI)
- More than 10% of papers on the top Q1 journal
- Global multidisciplinary academia-industry research
- Global alliance
- Global alliance-based internationalization activities
- 10 universities from 5 continents
- Global dual degree and training
- Smart city education and business model export
- Online or offline education and conference

Training and gaining brain for global innovation (SNU Smart City Supreme School)

Professors

Smart Infra Professors



Technology Management, Economics and Policy Program

Jun Seok Hwang

'Future prospects of the convergence engineering field including Smart cities and development of innovation strategies'



Technology Management, Economics and Policy Program

Jorn Altmann

'Economics of Internet Services, Smart system analysis and social network research'



Technology Management, Economics and Policy Program

Yoonmo Koo

'Energy & Environment Policy'



Graduate School of Engineering Practice

Seongwoo Kim

'Self-driving car, Robot AI, Digital manufacturing'



Graduate School of Engineering Practice

Seungwoo Seo

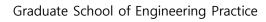
'Intelligent car, Vehicle communication, Communication and network security'



Graduate School of Engineering Practice

Eunsuk Suh

'System Engineering, Product and Platform Architecture Design, System Cost Analysis'



Seongsoo Hong

'System software, Operating system, Embedded system, Real-time system'



Innovation Infra Professors



Technology Management, Economics and Policy Program

Jina Kang

'Strategic Management, Entrepreneurship and startup'



Technology Management, Economics and Policy Program

Yeonbae Kim

'Resource and Energy Economics, Technology commercialization'



Technology Management, Economics and Policy Program

Jeong Dong Lee

'Technology-based new industry innovation policy theory and urban development case study in Smart city'



Technology Management, Economics and Policy Program

Jong Su Lee

'Technology and energy demand forecast, Smart city technology commercialization valuation and innovation growth potential analysis'



International Department

Hyeok Jeong

'Smart City Regional International Development, Economic growth/ development economy'



School of Law

Wonwoo Lee

'Smart City Administrative Law System'

Green Infra Professors



Department of Landscape Architecture and Rural System Engineering

Youngryel Ryu

'Land-atmosphere interactions, Exponential technologies, Urban ecology'



Department of Landscape Architecture and Rural System Engineering

Junsuk Kang

'Smart Landscape Systems Development, Analysis, design, and optimization of Landscape Structures'



Department of Landscape Architecture and Rural System Engineering

Dongkun Lee

'Climate change, Environment impact assessment, Environmental restoration'



Graduate School of Environmental Studies, Landscape Architecture

Saehoon Kim

'Resource and Energy Economics'



Graduate School of Environmental Studies, Landscape Architecture

Jaeseung Lee

'Urban design, traffic behavior, GIS'



Graduate School of Environmental Studies, Landscape Architecture

Youngkeun Song

'Landscape ecological planning, environmental remote exploration, geographic information system(RS·GIS)'



Department of Landscape Architecture and Rural System Engineering

Heeyeun Yoon

'Landscape planning Smart care and welfare'

Cooperative Professors



Department of Computer Science and Engineering

Bongki Moon

'Database'



Department of Architecture

Myoungsouk Yeo

'Architectural environment and facilities'



Civil and Environmental Engineering

Youngsang Kwon

'Urban Design'



Civil and Environmental Engineering

Junho Song

'Structural Engineering'



Civil and Environmental Engineering

Jinhwan Hwang

'Hydraulic Engineering'



Civil and Environmental Engineering

Kiyun Yu

'Spatial Information Engineering'



Civil and Environmental Engineering

Dongkyu Kim



Programs

Education process

- Total Credits: Master's program 24 credits or more,
 Doctoral program 36 credits or more,
 Master's and doctoral integrated program 60 or more credits
- Requirements for graduation are based on its each department (department) rule.
 At least one-quarter of the credits should be the courses enlisted as required major or elective major courses of smart city global convergence major

		Degree
College of Engineering	Dept, of Civil & Environmental Engineering	Master of Science, Ph.D.
	Technology, Management, Economics and Policy Program	Master of Science, Ph.D.
School of Law	School of Law	Master of Law, Ph.D.
College of Agriculture and Life Science	Dept, of Landscape Architecutre & Rural System Engineering	Master of Landscape Architecture, Ph.D.
Graduate School of Environmental Studies	Dept, of Environmental Landscape Architecture	Master of Landscape Architecture
	Interdisciplinary Program in Landscape Architecture	Ph.D. (Engineering)

Education process

Department	# of Credits	# of Courses
New Courses	15	5 courses
Dept. of Civil and Environmental Engineering	61	20 courses
Dept. of Computer Scinece & Engineering	3	1 courses
Dept. of Architectural Engineering	3	1 courses
Technology, Management Economics and Policy Program	57	19 courses
Dept. of Engineering Practice	18	6 courses
School of Law	39	13 courses
Dept, of Landscape Architecutre & Rural System Engineering	12	4 courses
Interdisciplinary Program in Agricultural and Forest Meteorology	3	1 courses
Interdisciplinary Program in Landscape Architecture	18	6 courses
Dept, of Environmental Landscape Architecture	11	4 courses
Total	240	80 courses 5 New Courses: 15 credits 75 Existing Courses: 225 credits

Internal regulations

Regulations for the application



Qualifications to apply for the convergence major

Qualifications on the credits earned and the semester completed

- Applicants should have completed at least one regular semester in each participating department & earned at least six credits before his/her first semester starts as a convergence major student
- Example) A student who wanted to apply for the convergence major for the 2020 Fall semester, should have completed at least one regular semester & earned at least six credits by September 1st, 2020

Participating department of the Smart City Global Convergence Major

Graduate school

- Department of Civil and Environmental Engineering
- Technology Management Economics and Policy Program (TEMEP)
- Law major (College of Law)
- Department of Landscape Architecture and Rural Systems Engineering
- (College of Agriculture and Life Science)

Graduate School of International Studies

Department of International Studies

Graduate School of **Environmental Studies**

Landscape Architecture

Regulations for the operation of the convergence major in SNU



Affiliation of a student

Students belong to the original department (major)

 Current affiliation of the applicant will be kept unchanged after being admitted to the convergence major



Degree grant after completing the convergence major

A student will grant the degree from his/her original department (major) but with the additional record of the completing the convergence major

• "The above person has completed the graduate school master's (doctoral) course (OO department, OO major, and interdisciplinary major, OOO), passed the prescribed examination and thesis examination, and passed the examination and thesis examination."

Regulations for the operation of the convergence major in SNU



Credits for the convergence program

Credits for the completion of the convergence program (In total)

- 24 or more credits for the master's program
- 36 or more for the doctorate program
- 60 or more for the master's or doctorate integrated program

Credits that should be earned with the convergence program classes ONLY

- More than one-fourth of the credits that are required for the completion of each major should be earned from the classes that are open by the Smart City Global Convergence Program
- The list of the convergence program-held classes are uploaded on the website (<u>ismartcity.snu.ac.kr</u>)

Accreditation of dual credits between the original major & the convergence major

 Common subjects that are provided by the participating departments to the convergence major can be accredited to as dual credits for the original major

Regulations for the operation of the convergence major in SNU



Availability of and the due date for the withdrawal

- A student who become a convergence major student but would like to withdraw the convergence major are able to cancel it if the student submit the withdrawal format (with the approval)
- However, the submission of the withdrawal should be before the end of his/her last semester
 of completion of masters/doctorate/integrated program
- Caution! The submission should be before the completion of each student's program, NOT before the graduation of each student's program

Special Events

[Opening Ceremony]

- · Opening Remarks
 - Prof. Junseok Hwang (Director of ITPP, Seoul National University)
- Congratulatory Remarks
 - Hoon Sahib Soh (Special Representative, The World Bank)
 - Byong-Jin Kim (President, Busan Innovation Institute of Industry, Science & Technology (BISTEP))
 - Prof. Emeritus Jang Gyu Lee (College of Engineering, Seoul National University)
 - Prof. Eunnyeong Heo (President of Korea Society of Innovation)
 - (Representative to ASEAN)

2019 GSDV MoU Celebration

 SNU GRC, WB, SHIHEUNG CITY, HCMUT, STEPI, KAIST, LX SIRI

Photo Session

[Keynote Address]

- · Future of the City, City of the Future
 - Prof. Youngsang Kwon (Associate Professor, Director of Innovative Talent Education Program for Smart City, Seoul National University)
- The Role of Digital Transformation in Supporting Smart & Sustainable Cities
 - Dr. Donovan Storey (Deputy Director and Urban Lead-Green Cities, Global Green Growth Institute(GGGI), Seoul)



Green Smart Development & Vision 2019

Smart City Development and Digital Transformation

Nov.26(Tue) 2019

Hanwha Resort Haeundae Manarola(3F)

Session 1-1

Korea Smart City Project

Session 2-1

Policy Resilience for the Innovative and Inclusive Society

Session 3-1

Smart City Professional Training Projects (Innovative education for smart cities)

Session 1-2

Global Smart City Project

Session 2-2

Technology and Innovation Adoption in the 4IR Era

Session 3-2

Opportunities and Challenges of Smart City Development



GREEN SMART DEVELOPMENT and VISION 2020 (Digital Symposia)

- Date: October 27 (Tuesday) 30 (Friday), 2020
- Venue: Convention Hall (2F), Siheung Smart Campus, Seoul National University
 & KINTEX (World Smart City EXPO 2020)
- Topic: New Deal, New Innovation & New Normal Transformation

(Day 1) Green Innovation

- GCF, WB Korea, GRC SNU

(Day 2) **Smart** City Global Convergence

- STEPI, WB Korea, SCGS SNU

(Day 3) **Development** for Future

- ITPP SNU, ITTP KAIST

(Day 4) <u>Vision</u> for Smart Singularity

- SNU, Siheung City, Born2Global, SUPREME S

The specific timeline for the event will be announced soon.







The 1st Supreme S Seminar (Previous Event)

The 1st Supreme S Seminar

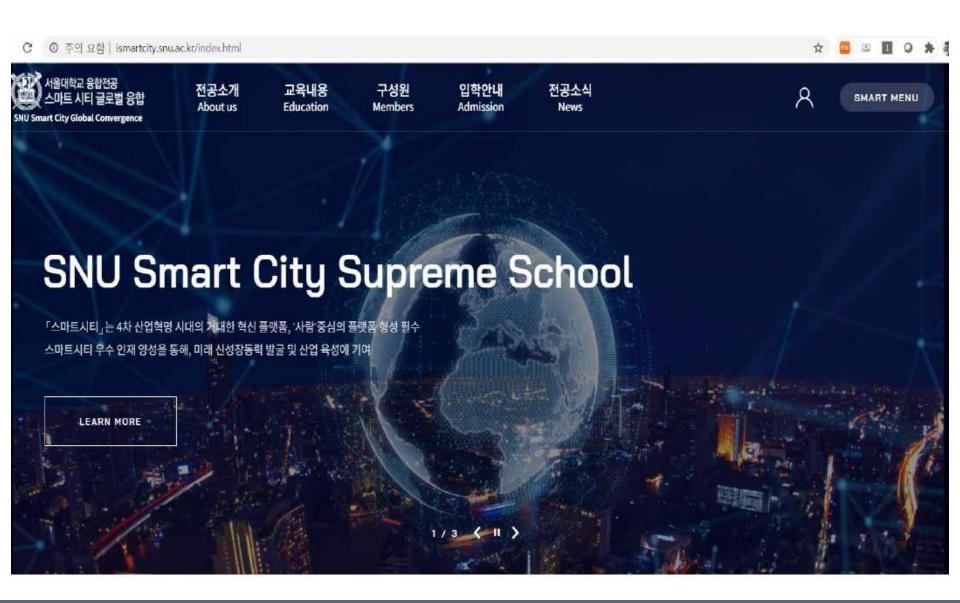
Celebrating Partnership of Inspiration, Knowledge, and Action for Global Green Transformation

- Date: July 28 (Tue), 2020 @ 15:00 ~ 18:00
- Venue: Room 109, Education Cooperation Building, SNU Siheung Campus
- Audience: Supreme S Members, I-STICK Students, SNU ITPP Students, GCF Interns, IEU Interns
- Special Venue: YouTube Live Broadcast (https://www.youtube.com/watch?v=03sWDmicsqc)





Program Homepage (ismartcity.snu.ac.kr)



Q & A