26th SEP 2016

Strategy of Environment Technology And Nano Technology Convergence In KOREA

Korea Institute of Science and Technology Center for Water Resource Cycle Research

Sang-hyup LEE

Meaning of Convergence in KOREA

융합(yung(melt) hap(sum) Convergence **Fusion** Mix

Complex

Level of Water Treatment Technology of KOREA

almost 90%

Compared to Developed Countries

Level of Nano Technology of KOREA

almost 90%

Compared to Developed Countries

Level of Water Treatment Technology And Nano Technology Convergence of KOREA

90% + 90% = 180% 90% - 90% = 0% 90% x 90% = 8,100% 90% / 90% = 1%

Personal Level of Water Treatment Technology And Nano Technology of KOREA

90% + 90% = 90.9% 90% - 90% = 0% 90% x 90% = 90.1% 90% / 90% = 1%

Big National Project of Environment Convergence Technology Development in KOREA

Department of Environment From 2,009 To 2,016 Total 60,500,000 US\$

Important Performance

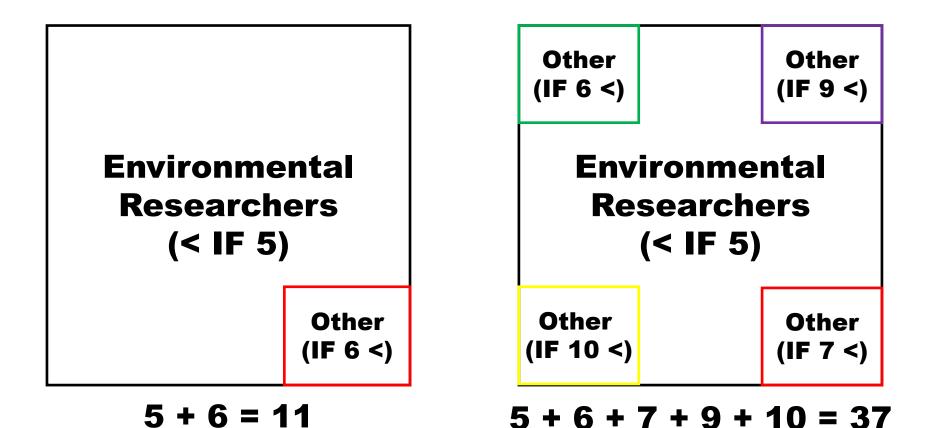


among the projects in DOE

6 times up in Impact Factor

Why?

Composition of Participants



Question?

Practicability / Applicability to Polluted Environment

F(x) = ax + b (b=0)?

High Impact Factor

Answer 1

Two Step(Basic -> Practical) and **Severe Evaluation Based** on **Practicability / Applicability** to Polluted Environment

40% survival

Answer 2

Role of Environmental Engineers Main Character

"Period of Convergence Technology"

Captain Main Character ET + NT = ENT ET + BT = EBT ET + IT = EIT

Answer 3

Positive cooperation

NRF of KOREA

High Environment Application Possibility among Basic/Scientific Technologies

Evaluation together

Research Funding

KEITI

(Korea Environment Industry & Technology Institute)

Our Strategy 1

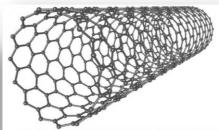
Coordinator















Our Strategy 2-1 Visible Nano





Where is superman?



Our Strategy 2-2 Visible Nano



I am here! I am Superman! Look carefully, please.

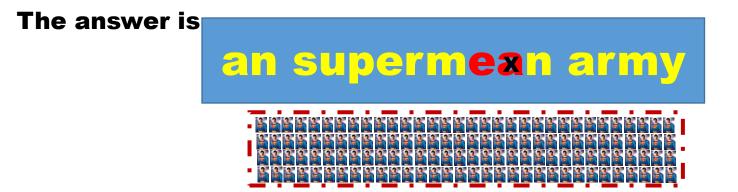
Nano Technology



Our Strategy 2-3 Visil Are you really

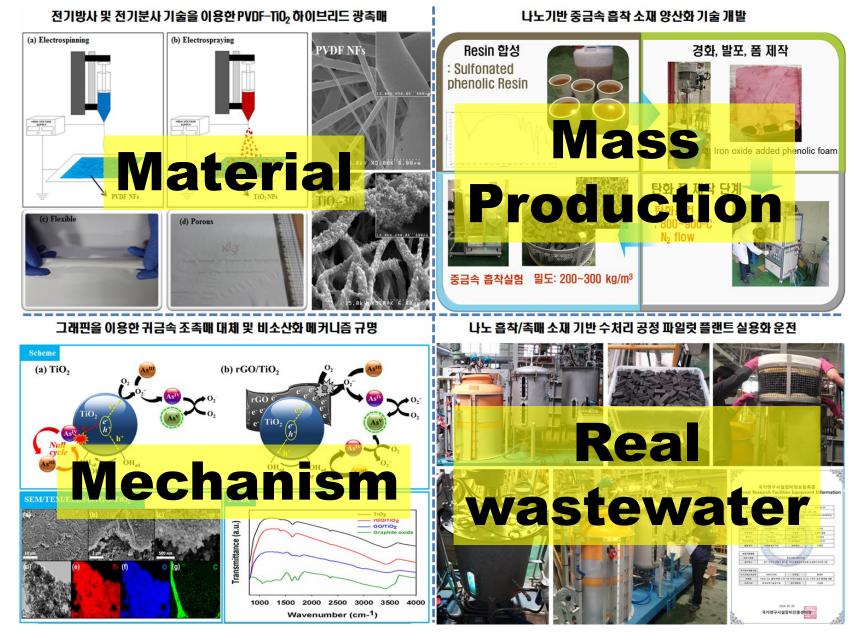
Are you really super? Are you really OK? Can you fight the strong enemy well? Are you really friendly to human beings? Are you really safe?

For solution

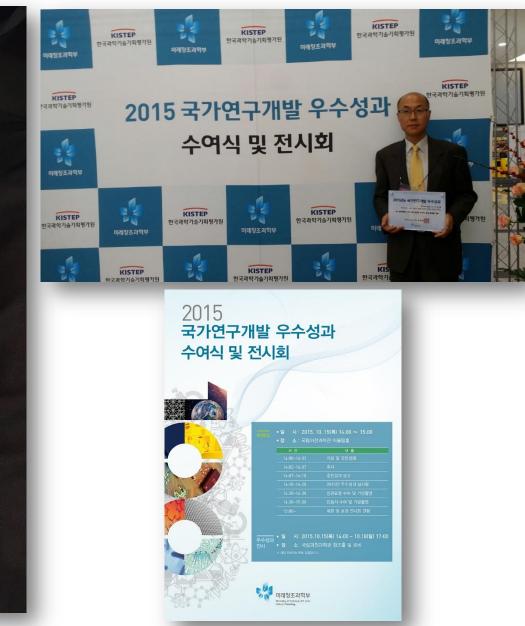


Too small Can't find you

Main Results



Award



국가연구개발 우수성과

한국과학기술연구원 이상협 (공동연구자 : 이창구, 전준우, 최원용, 문건희, 이창하, 박상현, 김대운)

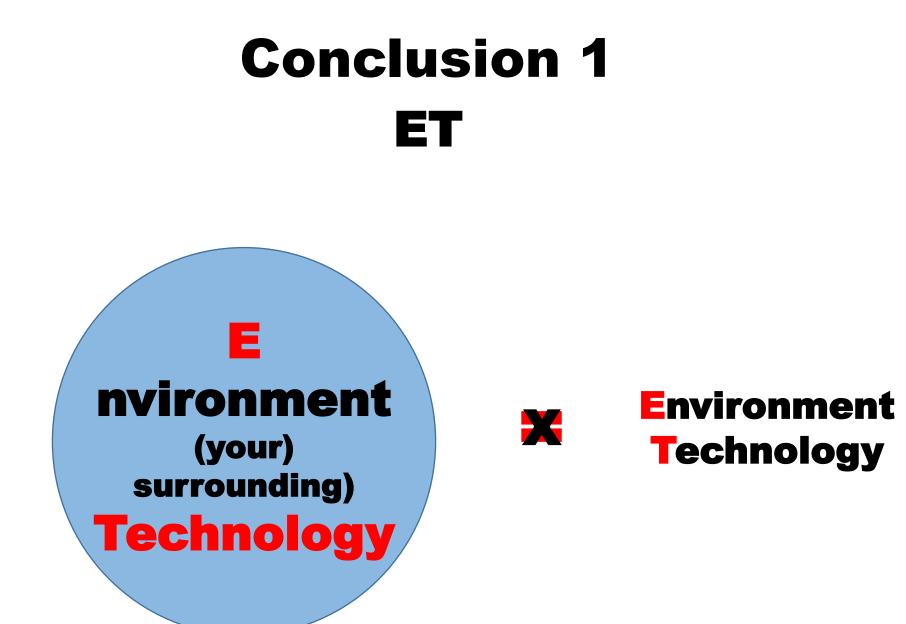
성과명 : 나노 흡착/촉매 소재 기반 초고도 수처리 공정 플랫폼 개발

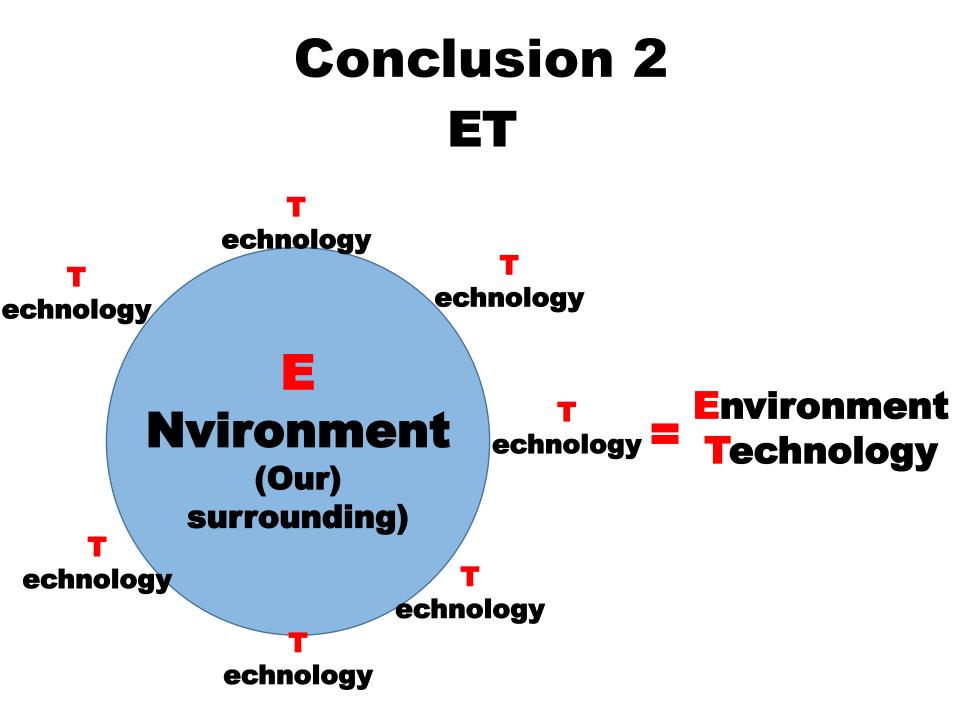
귀하의 연구성과가 「2015년 국가연구개발 우수성과 100선」으로 선정되었기에 이 증서를 드립니다.

2015년 10월 15일



미래창조과학부장관 최





Thank you for Listening

Questions or comment!