Sustainable Solution for Realizing Value of Heritage Sites

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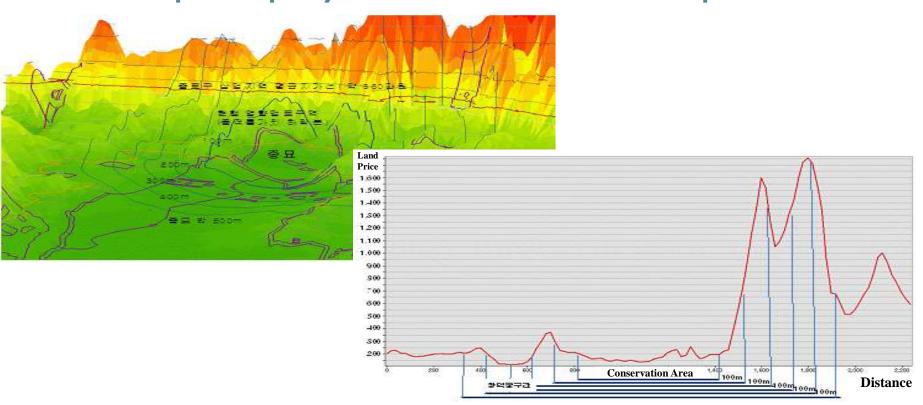
Challenges

- Heritage Sites are Priceless
- High Maintenance Costs
- Little Assistance from Public Sector
- Public Expects Respectable Upkeep

Land Use Regulation, development gains & losses

- Land use regulation inevitably results in development gains and losses
- To ensure effective land use planning, compensation system for development losses and recapturing windfall is needed

<< Land price disparity between conservation & developable land >>



Existing Solutions

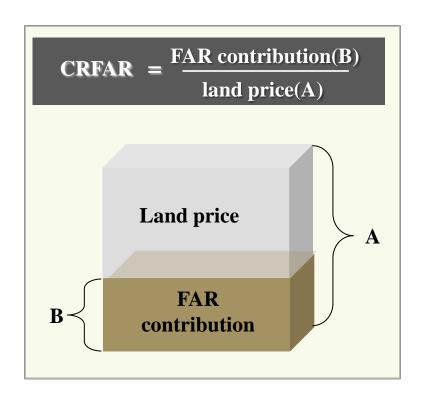
- Transfer of Development Rights (TDR)
 Segregating Development Rights
 from Ownership
- Enabling to Realize Value of the Restricted by Recapturing Development Gains
- Purchase of Agricultural Conservation Easement (PACE) in the U.S.
- Cases in Japan, France, etc.
- Difficulty in Matching 1:1 Ratio in Area or Amount

Sustainable Solution

- Concept of Transfer of Floor Area Ratio(TFAR)
 - Floor Area Ratio (FAR) is to be Transferred
 - FAR is the Basis for All Land Use Polices
 - Transfer of FAR in lieu of TDR
 - Monetary Value of FAR is used to Transact FAR

Estimation of monetary value of FAR

- Monetary value of FAR can be estimated by Contribution ratio of FAR on land price through land price assessment model or comparison of development potential
- Contribution ratio of FAR on land price(CRFAR)



Average CRFAR(Seoul)

Zones	CRFAR
Residential Zone	0.31
Commercial Zone	0.59
Industrial Zone	0.47
Green Zone	0.43

Example Case of Transacting FAR

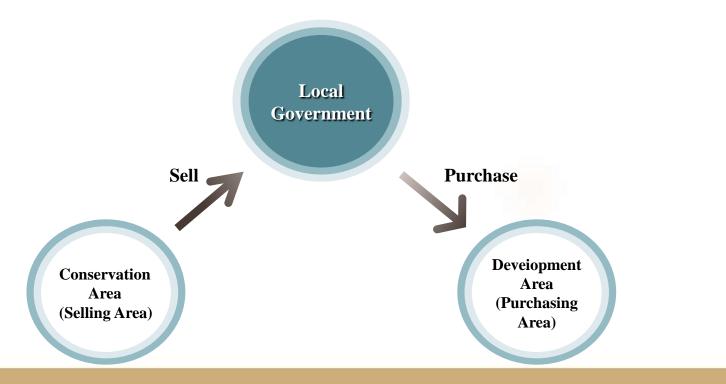
- Lot A in a Development Area
 - Size: 162,113m²
 - Average Land Price: 3,847,778won/m²
 - Allowed FAR by ordinance: 200%
 - Contribution Ratio of FAR of the Lot: 0.31
 - Percentage Increase of FAR wanted: 50%
 - Monetary Value of 1% of FAR of Lot A: 2,847,778won/m² x $0.31 \div 200\% = 4,214$ won/m²·%
 - Purchasing Price of FAR:
 4,414won/m²·% x 162,113m² x 50% = 35,778,339,100won

Example Case of Transacting FAR

- Lot B in a Development Area
 - Size: 8,939m²
 - Average Land Price: 4,580,000won/m²
 - Allowed FAR by ordinance: 250%
 - Contribution Ratio of FAR of the Lot: 0.31
 - Percentage Decrease of FAR by regulation: 50%
 - Monetary Value of 1% of FAR of Lot B: 4,580,000won/m² x $0.31 \div 250\% = 5,679$ won/m²·%
 - Selling Value of FAR: 5,679won/m²·% x 8,939m² x 150% = 7,614,687,150won

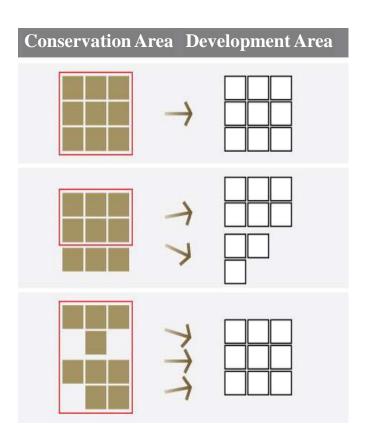
Transfer Method

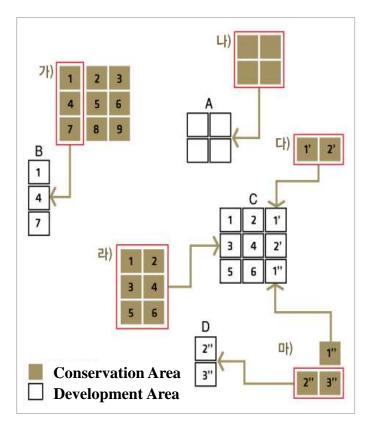
- Minizing transfer risks & cost
 - In the preliminary stage, Local government should get involved in selling & buying FAR
 - When the local government give development permission, they should charge fees for increasing FAR and give it to the conservation area according to the restricted FAR value.



Matching selling and buying areas

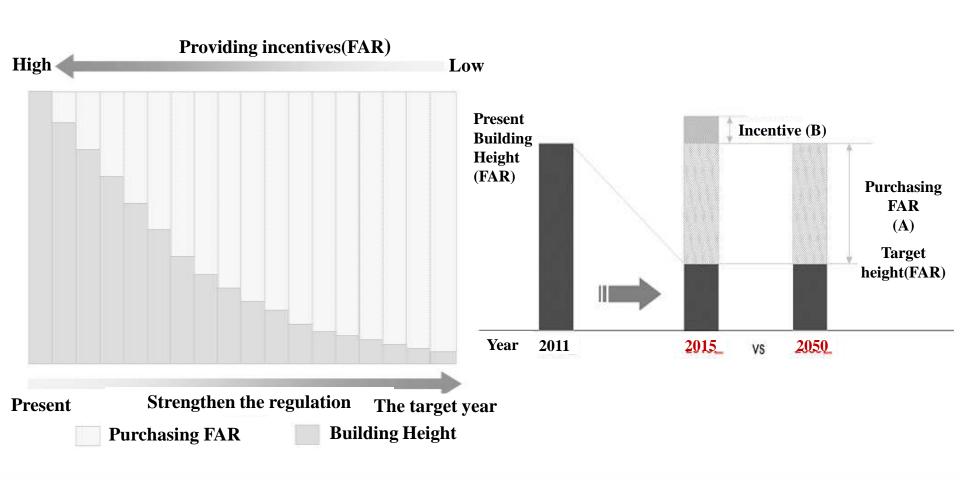
 The selling and buying areas of FAR can be linked in various combinations according to its FAR value, such as 1:1, 1:n, n:n





Time Zoning and TFAR

 Gradually increase regulation on area needed to be preserved by buying restricted FAR



Recommendations

- Establish FAR Bank to Promote Trading of FAR
- Increment Payment to Heritage Sites for Sustained Upkeep
- Transfer FAR Between Nations

Thank you!
Thank you!
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