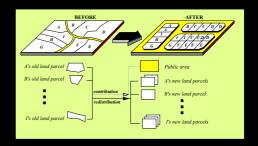
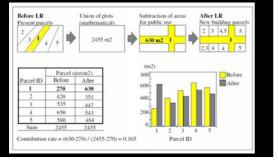


Land Readjustment (LR) is a crucial planning tool in order to provide new settlement lands in urban and rural areas.

It is an effective method to transform irregularly shaped cadastral parcels to appropriate plots that can be used in more economical manner.



all land parcels within a project area are grouped together and a percentage of each land parcel calculated to determine a contribution to public areas. This percentage depends on the size of the project area and the total size of required public-use areas. The remaining land is then reallocated within the blocks defined by the plan



## Objectives of LR...

Land readjustment aims to manage existing land structure when a systematic urban land development is required. The main objectives of a land readjustment project may be given as follows:

Development of new urban sites

Redevelopment of an already urbanised area

Improvement and expansion of public facilities

Disaster rehabilitation

LR is often used by municipalities in order to provide new built-up areas for urban development needs.

Using this method, available zoning plans are reflected on to land and new lots are created in a short time.

## \* Land valuation ?...

for example, has not been dynamically involved in the entire process...

Many substantial criteria which may affect a land parcel's value can ignored during the process...

As a result of this, inequitable land distribution occurs to the original landholders so that their benefits differ from the project...

## Nominal Land Valuation Method...

Using the comparison method of valuation, physical, legal and market factors can be compared directly but every property are spatially unique, so spatial factors requiring an alternative method of adjustment.

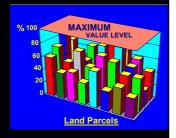
- The value of property reflects its capacity to fulfill a function. With regard to commercial property, functional qualities may include,
- · Location influences (accessibility to the market place, proximity to suppliers of raw materials and important nodes such as railway stations, car parks and open spaces)
- · Physical attributes (size, shape, age and condition)
- Legal factors (lease terms and restrictive covenants)
- · Planning and economic factors (planning constraints, permitted use and potential for change of use).

# Nominal Land Valuation Method...

Nominal values of property can be calculated in a parametric way instead of definite value.

Objective and subjective criteria selected for this aim are evaluated one by one.

Then, doing in a unit area or volume, these evaluations are reflected to all land parcels.



### Land valuation factors which may affect a land parcel value

- Supplied basic services
   Permitted number of floors
- 3) Permitted construction area
- 4) Landscape, view
- 5) Access to street 6) Environment
- 7) Parcel location within block
- 8) Street frontage
  9) Distance from nuisances
- 10) Land parcel shape 11) Currently usable area
- 12) Distance to city centre

- 13) Distance from noise 14) Soil condition

- 15) Distance to educational centres
- 16) Distance to health services
- 17) Access to highway
  18) Distance to shopping centre
- 19) Available utilities
- 20) Distance to recreational areas
- 21) Topography22) Distance to religious place
- 23) Distance to play garden
  24) Distance to car parking area
  25) Distance to fire station
- 26) Access to waterway
- 27) Distance to police station 28) Access to railway

$$V_{i} = AREA_{i} * \sum_{i=1}^{n} (P_{i} * W_{i})$$

Area: Land parcel size (or pixel size) W: Factor weight



