

VIABILITY IN PLANNING

Seminar for the Irish Planning Institute 15th May 2020 Jerry Barnes, MRICS, MSCSI, MIPI, MRTPI

OUTLINE

- Viability in Planning
- Key Concepts
- Development Economics The Basics
- Viability in
 - Development Plans
 - Master Plans Clonburris SDZ Experience
 - Development schemes



VIABILITY IN PLANNING

- Assist in the formulation of policy
 - Part V thresholds per area
 - Impact of Section 48, 49 contributions schemes
 - Review policies on density, open space, exceptional development costs
- Support the preparation of master plans
- Inform development management decisions
- Assist in local authority own development
- Debate on areas that local authorities should focus on



VIABILITY - KEY CONCEPTS

- Viability
- Feasability
- Affordability
- Market Value & Rental Value
- Yields
- Margins & Profits
- Gross Development Value
- Residual and Threshold Values
- Methods of Valuation (comparison, traditional investment, DCF, residual, profits, cost)



VIABILITY CONCEPT

Planning Policy Statement (DECLG, 2015)

• "Planning must proactively drive and support sustainable development, integrating consideration of its economic, social and environmental aspects at the earliest stage to deliver the homes, business and employment space, infrastructure and thriving urban and rural locations in an **economically viable** manner that will sustain recovery and our future prosperity."



VIABILITY CONCEPT (CONT.)

- "An individual development can be said to be viable if, after taking account of all costs, including central and local government policy and regulatory costs, and the cost and availability of development finance, the scheme provides a competitive return to the developer to ensure that development takes place, and generates a land value sufficient to persuade the land owner to sell the land for the development proposed." Harman Report 2012
- Being able to sell development for more than it costs to build (including land, financing, construction costs, selling costs, profit)



OTHER KEY CONCEPTS

- **Feasibility** Consideration of all financial, legal, property rights of constructing individual development.
- Affordability The measure of net income required to service a particular mortgage or rent.
- **Market Value** Price a willing buyer and a willing seller agree in an arm's length transaction
- **Yield** Rental return expressed as a percentage of money invested.
- **Margin/Profits** Difference between costs and receipts
- Gross Development Value The estimated value that a property or new development would fetch on the open market if it were to be sold in the current economic climate
- Residual Value Gross development value less development costs (including developers margin)
- **Threshold/Benchmark Value** Value at which a typically willing landowner is likely to release land for development before taxes.



METHODS OF VALUATION

- Comparison Used as a basis in all methods of valuation and compares like with like.
- **Profits** applied when no comparable rental/sale transactions are available (e.g. pubs, hotels, nursing homes), monopoly, lack of comparables
- Contractors last resort, when other methods cannot be used. Cost equals value (e.g. hospitals, community infrastructure)
- Residual used to value development land
- **Investment** determine the market value of a freehold or leasehold interest in property from its potential to generate future income. *Traditional and Discounted Cashflow*



KEY CONCEPT – RESIDUAL VALUE





DISCOUNTED CASHFLOW

All future <u>cash flows</u> are estimated and <u>discounted</u> by using cost of capital to give their present values.

Net Present Value (NPV): The sum of all future cash flows, both incoming and outgoing, is the <u>net present value</u> (NPV)

Used to calculate value of the site

Internal Rate of Return (IRR): Actual return on capital, where discount rate which produces a nil NPV

Used where site value is fixed



DEVELOPMENT SECTORS - HOUSEBUILDERS

- Pre-order, deferred payments, options and cashflow (process)
- Single client for each unit
- Gearing, debt exposure (smaller builders use more debt, vulnerable)
- Land banking 5 to 7 years supply
- Completions & capacity
- Margins 15-20%
- Apartment vs Houses different funding models
- Build to Rent akin more to commercial developers
- Scheme considerations density, contributions, Part V, ease of development, with permission, services



DEVELOPMENT SECTORS - COMMERCIAL DEVELOPERS

- Completed development leased or sold to investor seeking return from rental income
- Pension funds, hedge funds, REITS end owners
- Seeking to create asset value. Priority on functional aspects to create value
- Higher risk, bankrupt more easily
- Construction costs and value engineering key



DEVELOPMENT PROCESS – KEY FACTORS

- Funding & Financing
- Timing
- o Risk



DEVELOPMENT PROCESS - FUNDING

- **NAMA** funds selected established developers, or alternatively support receivers who have taken over the assets of liquidated companies.
- Local authorities (Social Housing Investment Programme (SHIP)). Local Infrastructure Housing Activation Fund
- LDA Central government funding, rental market, mixed tenure leveraging state land
- **Approved Housing Bodies (AHP)** secure grant and loan funding from central government through SHIP and loan finance through HFA.
- **Stock Exchange** include IPOs such as Cairn Plc and REITs (Green, Hibernian and IRES).
- Banks –will not currently lend more than 70% of development costs on a scheme and will only lend for prime development sites. Developers then have to seek to make up the balance of 30%.
- **Cash** reserves of cash can be used to fund development.



DEVELOPMENT PROCESS – IMPACT OF LOAN FUNDING

Example without loan funding

Receipts : € 250,000

Less: Costs

Land € 50,000

Construction €150,000
 Total Project Costs €200,000
 Margin on Cost €50,000

Example with loan funding

Receipts : € 250,000

Less: Costs

- Land € 50,000
- Construction €150,000

 Interest (1 year loan of €150,000 @ 10%) €15,000
 Total Project Costs €215,000
 Margin on Cost €35,000



DEVELOPMENT PROCESS – IMPACT OF TIME

Example of 2 year loan

Receipts : € 250,000

Less: Costs

o Land € 50,000

Construction €150,000

Interest (2 year loan of €150,000 @ 10%) €30,000
 Total Project Costs €230,000

Margin on Cost **€20,000**



DEVELOPMENT PROCESS – IMPACT OF RISK

Principal Risks

- Overestimating what the completed development might be worth or how long it will take to let/sell
- Underestimating costs, missing some costs altogether, or unforeseen events.
- Paying too much for the site.Delays

Underestimated Costs

Receipts : € 237,000

Less: Costs

- Land € 50,000
- Construction €157,000
- Interest (2 year loan of €157,000 @ 10%) €31,500

Total Project Costs €239,000

Margin on Cost **€1,500 Loss**



VIABILITY IN DEVELOPMENT PLAN POLICY - FACTORS





BENEFITS OF VIABILITY TESTING

- Considers cumulative effects
- Balances risks
- Iterative tool to inform policy
- Collaborative
- Allows for spatial and temporal variation of policy
- Ensures that the plan is implementable in a market economy



VIABILITY TESTING – CUMULATIVE APPROACH

Example of Cumulative Approach

- Policy Layer 0 No Part V housing, Section 48 contributions or other policy costs
- Policy Layer 1 Part V housing, no Section 48 contributions or other policy costs
- Policy Layer 2 Part V housing, Section 48 contributions and no other policy costs
- Policy Layer 3 Part V housing, Section 48 contributions and specific density policy
- Policy Layer 4– Part V housing, Section 48 contributions, density policy and apartment size policy



VIABILITY IN PLANS – BALANCING RISKS



Cost of policy requirements



VIABILITY TESTING OF PLANS - STEP 1

Review existing evidence and consider scope for alignment of assessments





VIABILITY TESTING OF PLANS – STEP 2

Agree the appraisal methodology, assumptions and information to be used





VIABILITY TESTING OF PLANS – STEP 3

Gathering Costs and Information:

- Sales values
- Constructions costs
- Legal costs
- Financing costs





VIABILITY TESTING OF PLANS - STEP 4





VIABILITY TESTING OF PLANS – STEP 5

- Recommendations
- Sensitivity Tests















































CASE-STUDY - CLONBURRIS SDZ





CLONBURRIS SDZ – VIABILITY PROCESS





SUPPLY & DEMAND ISSUES

Development Land

2,812 ha of residentially zoned land in GDA

Values range from €0.5m/ha to €7m/ha

Residential

- o CS 5,300 units/annum
- Completions low
- Lack of development in low ⁸⁰⁰
 value areas ⁶⁰⁰
- Median price
 - Lucan €265,000
 - Clondalkin €190,000
- Strong rental growth
- Affordability issues





SUPPLY & DEMAND ISSUES

Retail

- Separate study undertaken
- Total of 21,455 sqm of retail and retail services required

Office/Commercial

- Separate study undertaken
- Potential for between 30,000 to 40,000 sqm of non retail commercial



MASTER PLAN ISSUES

- General Viability
- Density
- Typologies
- Employment uses
- Infrastructure costs and contributions
- Changing the value profile of an area



REVIEW OF EMERGING SCHEME





PLANNING SCHEME ASSUMPTIONS

Planning Scheme Assumptions							
Plan Area & Land Use Mix							
	% of GDA	HA					
Gross Plan Area (GPA)	109%	281					
Strategic Corridors (existing railway, arterial routes, canal)		22.6					
Gross Development Area (GDA)	100%	258.4					1
less open space/essential infrastructure/schools, etc)		107.63					1
Net Developable Area (NDA) - Total	58%	150.77					
Residential		•					
Total number of residential units	8420	ł.					
Gross Density (based on GDA)	33	per ha					
Net Density (based on NDA - total)	56	per ha					
House:Apartment mix	Apartm ents	Houses					Total
% Туре	30%	70%					100%
Units num bers	2526	5894					8420
Unit Mix	Studio	1 bed	2 bed	3 bed	4 bed	5+ bed	
% Apartment Mix	10%	20%	55%	15%			100%
% Housing				65%	30%	5%	100%
Number of apartments mix	253	505	1389	379	l .		2526
Number of houses mix				3831	1768	295	5894
gross internal floor area (sqm)	40	45	73	90	100	116	i
netgross external residential floor area	117%	117%	117%	117%	117%	117%	
gross external floor area (sqm)	47	53	85	105	117	136	i
Total floor area (sqm)	11822	26599	118660	443313	206879	39997	847270
Assumed affordable housing share (%)	10%						
Commerical							
	gross (sqm)	Plot Ratio					
Retail	21,520						
Non-retail commercial	31,115	,					
Total commercial	52,635	#REF!					
Community							
Civic, leisure, cultural	7,300						
Traveller accomm odation	0						
Total	7,300	#REF!	#REF!				
Levies & Infrastructure							
Contributions	County S48	S49					
Applied Yes/No	No	No					
Exceptional infrastructure costs	No		•				
Phasing & Delivery							
	2025	2030	2035		Mace	ARE DUE	NEV
Delivered by indicated year			100%	MDI	R RADAU		

Planning Environment Economics

MDR

VALUE ASSUMPTIONS

Values					
Existing land value for existing use (€ per net developable ha)	€13,736 _{ha}				
Minimum purchase land (threshold) value (€ per net developable ha)	€320,000 ha				
	Apartments - € per sqm	€2,996			
	Houses - € per sqm				
	Other uses (list) - € per sqm				
Development sales values	Retail	€3,333			
	Suburban Offices (natural ventilation)	€800			



COST ASSUMPTIONS

Build costs								
Standard build costs								
	Apartments - € per sqm		€1,600					
Build cost (incl: prelims, but excl: externals, professional fees and contingency)	Houses - € per sqm		€1,170					
	Other uses (list) - € per sqm							
	Retail		€1,200					
	Suburban Offices (natural ve	€1,600						
	Community	€1,000						
List any abnormal costs (or estimate € per net developable ha), such as:								
SUDS (if applicable)	€200,000 per ha							
Sum total	€200,000 per ha or		€ per net ha					
List any site opening costs (or estimate € per net developable ha), such as:								
Sum total	€500,000 per ha	or	€ per net ha	1				
Other Assumptions - if you disagree with any please comment below:								
External works at 10% of build cost	Yes							
Contingency at 4% of build cost & external works	Yes							
Professional fees at 8% of build cost & external works	No. 5%							
Sales and marketing costs at 3% of development value	Yes							
Finance costs at 6.5% of development cost	Yes							
Developer profit at 17% of development value (GDV)	No. 15%							
VAT @13.5%	NEW ASSUMPTION							



FINDINGS





LESSONS FROM CLONBURRIS

- Assumptions sensitive
- Iterative process
- Overall viability of scheme
- Cumulative impacts of policy
- Policy choices not all policies can be incorporated
- Viability of employment uses
- Need to build a different value profile that immediately adjoining social housing areas for market housing
- Timeframe of development needed to be extended out
- Recommendations on density, kick starter development
- Question of how infrastructure would be delivered (equalisation, contributions, LIAF)



VIABILITY FOR INDIVIDUAL SCHEMES

- Purpose of assessment?
- Either DCF or residual method used
- Software (e.g. Argus, spreadsheet)
- Assumptions sensitive
- Dependent upon circumstances of developer (equity, debt profile, cost of land holding)
- Potential JVs between local authorities and developers
- Role of AHBs



CONCLUSIONS

- General awareness of viability issues
- Need clarity on what viability testing is being used for
- Cumulative impact of policy in Development Plans
- Enhancing value of area through Master Planning



Questions

