INVEST HEALTH

Strategies for Healthier Cities

A Project of the *Robert Wood Johnson Foundation* and *Reinvestment Fund*







The Fundamentals of Capital Project Budgeting

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Agenda

- 1. The Fundamentals (Sara Vernon Sterman)
- 2. Project budgeting in action (Clare Newman)
- 3. Exercise



Project Budget vs. Operating Budget

Project budget

One time expenses associated with developing the project

Operating budget

Recurring expenses

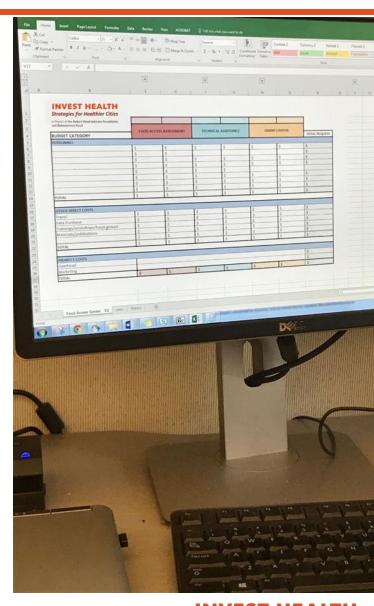
Needs to be sustainable



Operating Budget

For buildings, must include occupancy costs:

- Rent/mortgage
- Utilities
- Water/sewers
- Cleaning/garbage/pest control
- Snow removal/landscaping
- Security
- Repairs/maintenance
- HVAC/elevator
- Insurance/taxes



Fully funded project budget

Sources must equal Uses

 Sources must be available when needed



Project Budget Uses

- Acquisition
- Hard Costs
- Soft Costs
- Contingency
- FF&E
- Closing costs & financing fees



Project Budget Uses: Hard Costs

- Fixed price contract
 - Stipulated Sum
 - Guaranteed Maximum Price (GMP)
- Time and materials only for small projects
- Consider energy efficiency
 - Upfront cost vs. long term savings



Project Budget Uses: Soft Costs

- Architect
- Engineer
- Owner's rep or project manager
- Appraisal
- Environmental
- Geotech
- Survey
- Inspection/Property Condition Report
- Plan and cost review
- Payment & performance bond
- Permits
- Insurance





Project Budget Uses: Contingencies

Emergencies and unforeseen events

Change orders during construction

Hard cost: 10-15%

• Soft cost: 5%



Project Budget Uses: FF&E

Furniture, Fixtures and Equipment

- All movable or attachable items including office equipment, specialized equipment, computers, telephone, signage, and security systems
- Installation must be coordinated with overall construction schedule



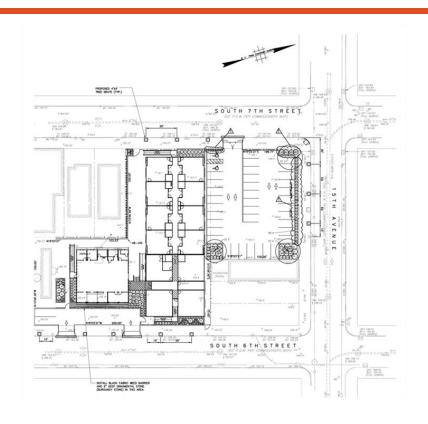
Project Budget Uses: Closing costs

- Financing fees
 - Commitment fee
 - Origination fee
- Legal (both yours and lender's)
- Closing costs (title insurance, escrows, taxes)



Project Budget Uses: Other

- Reserves
 - Construction interest
 - Debt service
 - Repair and maintenance
 - Sinking fund
- Inspection fees
- Retainage
- Fund based upon work in place
- Possible to reimburse predevelopment expenses



Project Budget Sources

- Sources = capital stack = how to pay for project
- Mixture of debt and equity
 - If project will generate revenue, use debt to spread the cost over time
 - If project will not generate revenue, need subsidy/grant funding



Project Budget Sources: Debt

Borrowed money that must be repaid

- Senior debt
 - Banks, CDFI, Bonds
 - Has "priority" in repayment means that they are repaid first
- Subordinate debt
 - Junior lender (lender, government program, foundation PRI)
 - Subordination agreement
- Use debt for income producing projects of a project

Types of Loans

- Predevelopment
- Acquisition
- Construction
- Permanent
 - "Mini-perm"
- Leasehold improvement ("tenant improvement")
- Bridge
- Working capital/line of credit



Project Budget Sources: Equity

• 20% equity

Equity paid in first

Will equity be available when needed?

Project Budget Sources: Equity

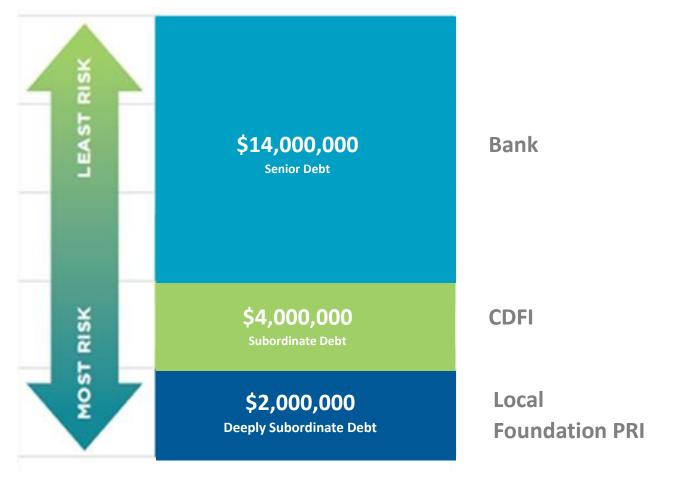
- Grant ("capital grants")
- Subsidy
- Cash
 - Cash on hand
 - Capital campaign
 - Investors

e.g., Historic Tax Credits, New Market Tax Credits

Existing value

Project Budget Sources: What is a Capital Stack?

The way that this capital is layered together, or combined, to fund a particular project.

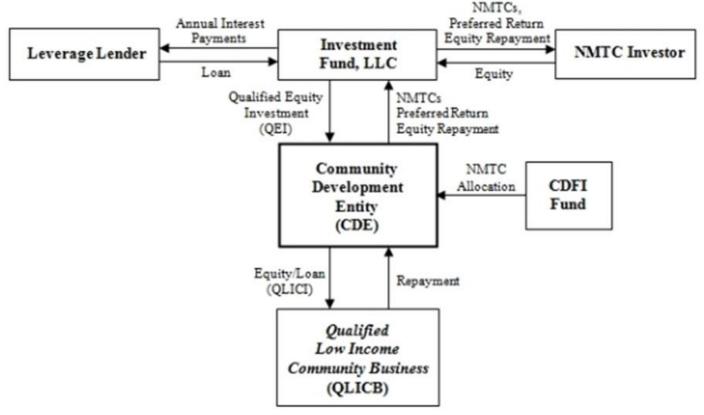




Project Budget Sources: What is Capital Structure?

How the parties interact to finance a project.

- A. Can be simple: Borrower < >Lender
- B. Or complex:



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Food Manufacturing Hub

i.

The Yard in Context



Mission

The mission of the Brooklyn Navy Yard Development Corporation is to fuel New York City's economic vitality by creating and preserving quality jobs, anchoring the City's modern industrial sector and businesses, and connecting the local community with the economic opportunity and resources of the Yard.

i.

The Yard in Context

Who We Are



DUMBO

Brooklyn Navy Yard

Downtown Brooklyn

Fort Greene

Cobble Hill

Carroll Gardens

Williamsburg

Clinton Hill

Brooklyn

300 acres

60 buildings

5 million square feet under roof

400+ businesses

7,500 jobs

\$2B in economic impact

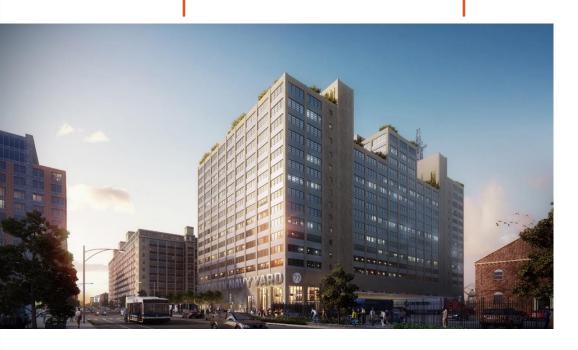
The Yard in Context

Development Projects



ii. Project Intro

Seizing Opportunity



Problem: no place in the Yard to eat, gather, take meetings, accidentally innovate

Opportunity: undertaking gut renovation of 1M sf building immediately adjacent to public street

Project Goals:

- Create a "front door, living room, and kitchen" for the Yard where businesses, employees and members of the public can meet and collide
- Support NYC's burgeoning food manufacturing sector (mainly small businesses) and create jobs
- Curate a selection of food manufacturers and eateries that are reflective of Brooklyn's diversity

ii. Project Intro

A New Front Door





iii.

Project Conception

Pre-development Work

Issue	Building 77 Example
Project Structure	
Control	Self-development (vs. dev agreement or master lease)
Construction	Cost-plus CM (vs. GC or GMP or other)
Info Gathering	
Environmental	Phase 1 and phase 2 testing
Structural	Slab borings, shell testing, etc.
Feasibility / options	Engaged architect to conduct a feasibility study for three options with order- of-magnitude costing
Title / survey	Title search and survey
Timeline	Timeline with phasing
Market study	Food and beverage capture analysis
Comps / budget	Order of magnitude cost estimate (per above) plus comp research
Team Building	
Architect & engineering	Marvel Architects, kitchen consultants,
Owners rep	Sterling
Construction manager	Plaza
Anchors	Russ & Daughters

Project Conception

End of pre-development phase

Smaller Risk Pool

- Greater revenue certainty (anchor signed, market study complete)
- Greater cost certainty (feasibility work, comp research)
- Fewer unknowns (title, environmental, structural)
- Better defined scope (selection of option and project components)

Disbursement of Risk

- Could consider GMP or completion guaranty increases \$
- Could consider master lease decreases control

Project Pro Forma Detailed Budget

Building 77 Ground Floor Pro Forma Last Updated: November 2017 Assumptions / Inputs Gross Square Feet 62,000 Zoning Square Feet 60,000 Rentable Square Feet 38,194 **Detailed Budget** Acquisition & Closing Costs Ś Hard Costs Total PSF Notes CM Base Contract Price 15,000,000 \$ 241.94 CM Add Alt 1 - Mezzanine 1,200,000 | \$ 19.35 **Graphics and Signage** \$ 500,000 \$ 8.06 Construction Contingency 10% \$ 1,500,000 \$ 24.19 \$ 18,200,000 \$ 293.55 Hard Cost Subtotal Soft Costs Total PSF Notes Feasibility Study 179.000 S 2.89 Market Study 22,000 \$ 0.35 **7%** \$ Architect 1.050.000 \$ 16.94 \$ \$ Legal Ś \$ Accounting \$ Survey 12,000 \$ 0.19 \$ \$ **Appraisal** 7.500 0.12 \$ \$ Environmental GeoTech & Structural Testing Ś \$ inc in feasibility study _ Graphics and Signage Design \$ 40,000 | \$ 0.65 Owners Rep \$ 100.000 \$ 1.61 Expediting and Filing \$ 40,000 \$ 0.65 Inspections \$ 140,000 \$ 2.26 FF&E \$ 400,000 \$ 6.45 \$ 25,000 \$ LEED Fee 0.40 Ś Marketing 250,000 \$ 4.03 Soft Cost Subtotal 2,265,500 \$ 36.54

Financia - Fore		Tatal	DCE	Natas
<u>Financing Fees</u>		<u>Total</u>		Notes
Bank		\$ 131,559	\$ 2.12	1% of loan principal
				see NMTC tab; net
NMTCs		\$ -	\$ -	proceeds in sources
Financing Cost Subtotal		\$ 131,559	\$ 2.12	
Leasing Costs "Good News Car	ital"	<u>Total</u>	<u>PSF</u>	<u>Notes</u>
Tenant Improvements	\$45	\$ 1,718,730	\$ 27.72	
Commissions		\$ 200,000	\$ 3.23	
Leasing Cost Subtotal		\$ 1,918,730	\$ 30.95	
Carrying Costs		<u>Total</u>	<u>PSF</u>	<u>Notes</u>
Lease-up/Operating Reserve		\$ 250,000	\$ 4.03	six months of op ex
Construction Interest		\$ 723,572	\$ 11.67	
Carrying Cost Subtotal		\$ 973,572	\$ 15.70	
Design Contingency	10%	\$ 2,046,550	\$ 33.01	of HC+SC
SUBTOTAL		\$ 25,535,911		
				of TDC less
Developer's Fee	4%	\$ 1,021,436	PSF	developer's fee
TOTAL		\$ 26,557,347	\$ 428.34	

Notes:

- Numbers are illustrative only

Assumptions / Inputs	
Escalations	2.5%
Gross Square Feet	62,000
Zoning Square Feet	60,000
Rentable Square Feet	38,194

Cash Flow				Acq		C1		C2	Year 1	Year 2	Year 3	Year 4	Year 5	Yea	r6
Revenue															
Rent	38,194	\$	31						\$ 1,185,331	\$ 1,214,964	\$ 1,245,338	\$ 1,276,472	\$ 1,308,384		
Events	12	\$	25,000						\$ 300,000	\$ 307,500	\$ 315,188	\$ 323,067	\$ 331,144		
Electric		\$	3						\$ 114,582	\$ 117,447	\$ 120,383	\$ 123,392	\$ 126,477		
Condenser Water		\$	4						\$ 133,679	\$ 137,021	\$ 140,446	\$ 143,958	\$ 147,557		
Insurance		\$	0.30						\$ 11,458	\$ 11,745	\$ 12,038	\$ 12,339	\$ 12,648		
Water - fixture charge		\$	0.34						\$ 12,986	\$ 13,311	\$ 13,643	\$ 13,984	\$ 14,334		
Potential Gross Income	?			\$	-	\$	-	\$ -	\$ 1,758,036	\$ 1,801,987	\$ 1,847,037	\$ 1,893,213	\$ 1,940,543		
Vacancy and Credit Los	SS		10%	\$	-	\$	-	\$ -	\$ (175,804	\$ (180,199)	\$ (184,704)	\$ (189,321)	\$ (194,054)		
Effective Gross Income				\$	-	\$	-	\$ -	\$ 1,582,233	\$ 1,621,788	\$ 1,662,333	\$ 1,703,891	\$ 1,746,489		
<u>Expenses</u>															
Utilities, Insurance, Sta	aff, Waste,	ReT	x, Misc												
Repairs and Maintenar	nce														
Total Expenses				\$	-	\$	-	\$ -	\$ (496,000	\$ (508,400)	\$ (521,110)	\$ (534,138)	\$ (547,491)		
Acquisition Cost				\$	-										
Construction Cost						\$ (13	3,278,674)	\$ (13,278,674)							
Terminal Value	6%													\$	19,983,292
Net Operating Income				\$	-	\$(13	,278,674)	\$ (13,278,674)	\$ 1,086,233	\$ 1,113,388	\$ 1,141,223	\$ 1,169,754	\$ 1,198,998	\$	19,983,292
All Non-equity source	S					\$ 7	,967,204	\$ 13,278,674							
Debt Service	1.2								\$ (905,194	\$ (905,194)	\$ (905,194)	\$ (905,194)	\$ (905,194)	\$	(905,194)
Balloon														\$	(11,904,837)
Leveraged Cash Flow				\$	-	\$ (5	,311,469)	\$ -	\$ 181,039	\$ 208,195	\$ 236,029	\$ 264,560	\$ 293,804	\$	7,173,262

Project Pro Forma Sources & Uses

Sources	
Developer Equity	\$5,311,469
Deferred Developer's Fee	\$1,021,436
First Mortgage	\$13,155,856
DB Grant	\$380,000
NMTCs	\$2,200,000
City Capital	\$4,488,585
Total	\$26,557,347

Uses	
Acquisition & Closing Costs	\$ -
Hard Costs	\$18,200,000
Soft Costs	\$7,335,911
Developer's Fee	\$1,021,436
Total	\$26,557,347

Notes:

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SOURCES		USES	
Loan	850,000	Acquisition	650,000
Grant	200,000	Renovation	350,000
		HC contingency	35,000
		Architect	15,000
		Environmental	25,000
		Zoning	20,000
		Financing fees	8,500
		Closing costs	50,000
		FF&E	20,000
Total Sources	1,050,000	Total Uses	1,173,500

SOURCES		USES		
Loan	900,000		Acquisition	750,000
			Fencing	50,000
			Roof repair	100,000
Total Sources	900,000	Total Us	es	900,000



SOURCES		USES	
Bank loan	8,000,000	Acquisition	7,500,000
City subord. loan	2,000,000	Construction	5,000,000
Foundation PRI	1,000,000	Contingency	500,000
Grant	200,000	Appraisal	10,000
Borrower equity	2,500,875	Architect	250,000
		Environmental	150,000
		Legal	15,000
		Permit	20,000
		Owner's rep	25,000
		Zoning	10,000
		Inspections	7,500
		Survey	5,000
		Financing	100,000
		Title/transfer/taxes	75,000
		Soft cost contingency	33,375
Total Sources	13,700,875	Total Uses	13,700,875

SOURCES		USES	
Bank	9,775,000	Acquisition	1,500,000
Sub-debt	1,750,000	Construction	12,644,456
Seller financing	1,500,000	Contingency	11,556
Equity	2,641,732	Soft costs:	
		Accounting	65,000
		Architect	182,100
		Closing	108,600
		Environmental	9,428
		Engineering	305,900
		Appraisal	7,720
		Permits/Licenses	63,520
		Legal-borrower	50,000
		Legal-lenders	70,000
		Origination fees	115,250
		Owner's rep	255,094
		Technology	25,824
		FF&E	252,284
Total Sources	15,666,732	Total Uses	15,666,732

SOURCES		USES	
Bank	15,000,000	Acquisition	1,500,000
Sub-debt	1,250,000	Construction	12,600,000
		Contingency	1,260,000
		Soft costs:	
		Professional services	500,000
		Appraisal	7,500
		Legal-borrower	50,000
		Legal-lenders	70,000
		Origination fees	162,500
		FF&E	100,000
Total Sources	16,250,000	Total Uses	16,250,000



Budgeting practice

With your teammates or independently, brainstorm on the following...

- What is the right project structure for us?
- Who will be the members of our development team?
- What is most worrying about this project?
- What are the right line items to include in our budget?

Sources	
Uses	
Acquisition	
Hard Costs	
Soft Costs	
Contingency	
FF&E	
Closing costs & financing fees	