

Tweel's Wheels

2025 Pitch Deck



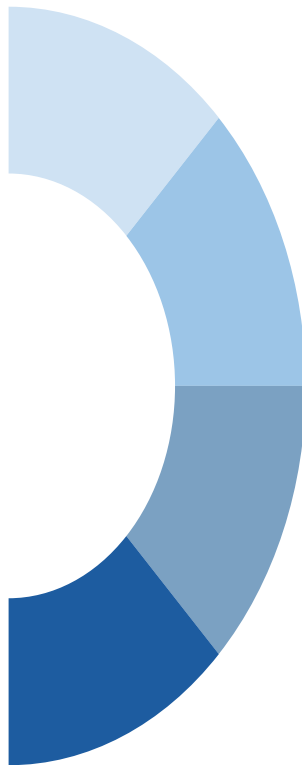
*Tweel's
Wheels*

Mission

Tweel's Wheels is on a mission is to create **easy to find, beautifully designed, and affordable** play products that spark joy for and empower children with mobility challenges.

Problem

For children with physical disabilities, opportunities to experience play are limited.



Few options



Hard to find



Unappealing



Expensive

Industry

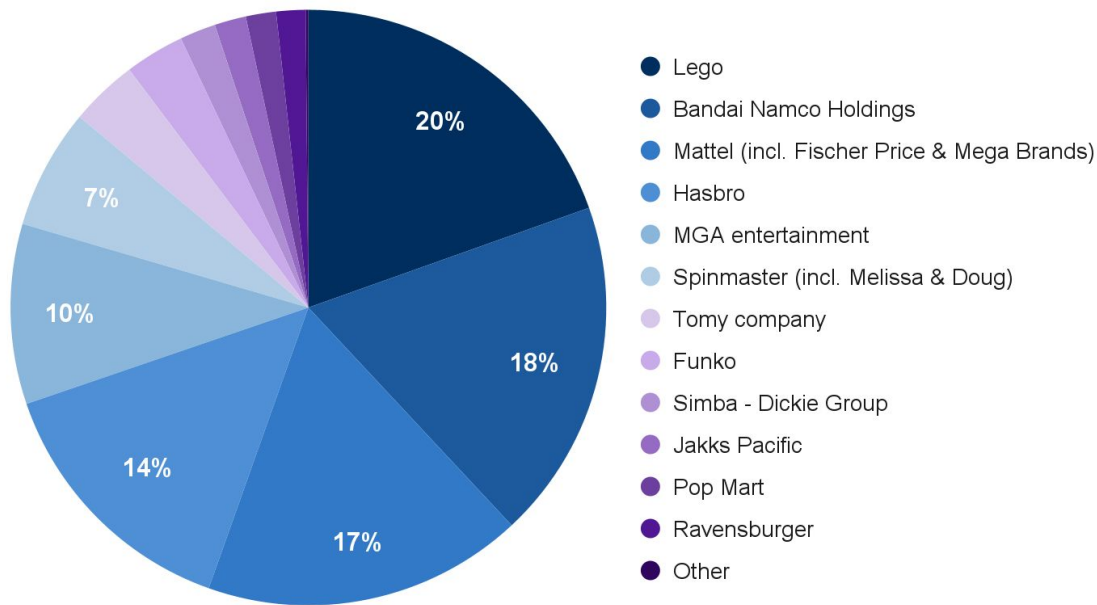
\$40B

spent on US toys in 2023

9%

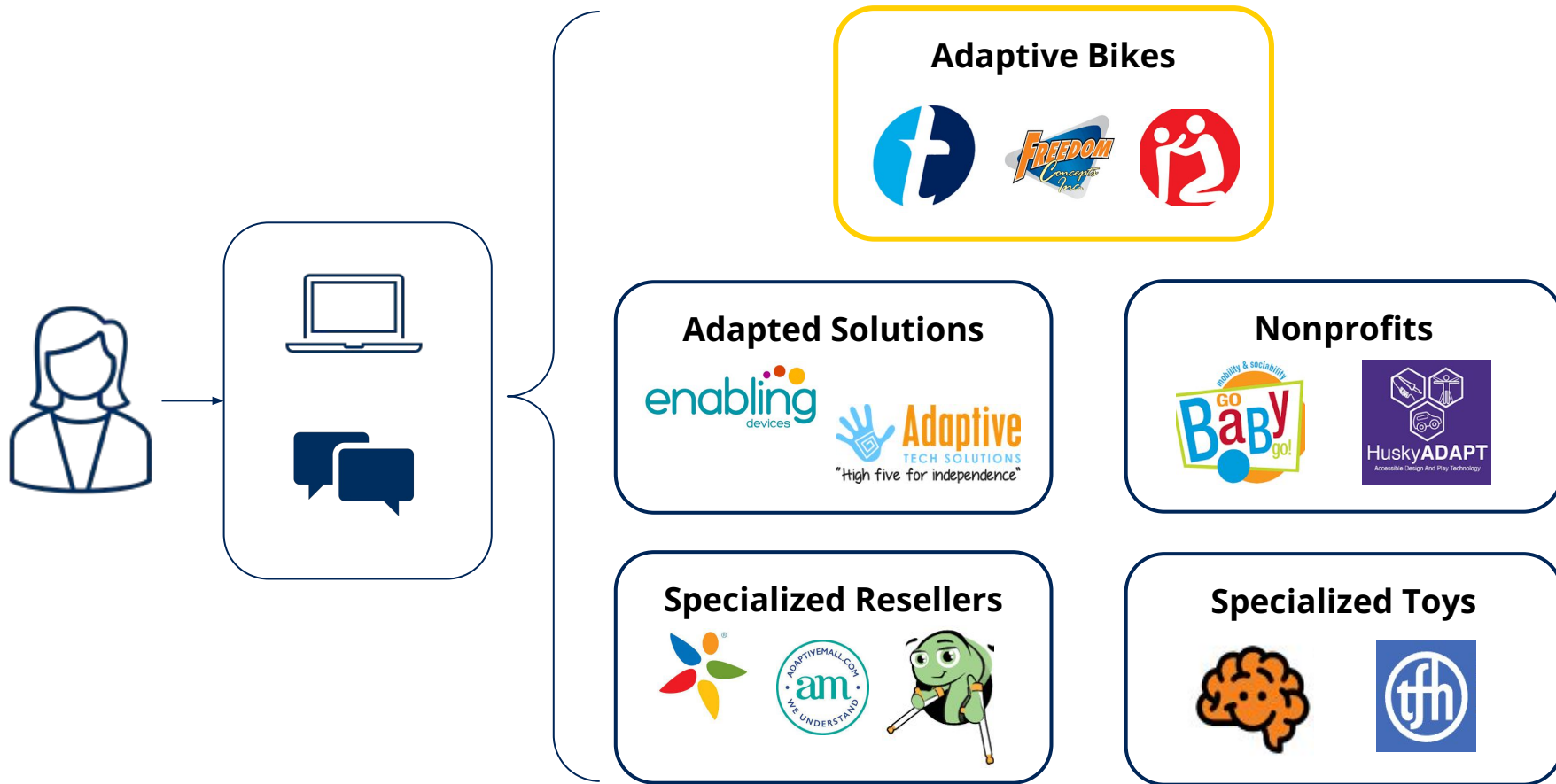
of US children have some
form of physical disability

Toy Company Market Share



Retailers:   

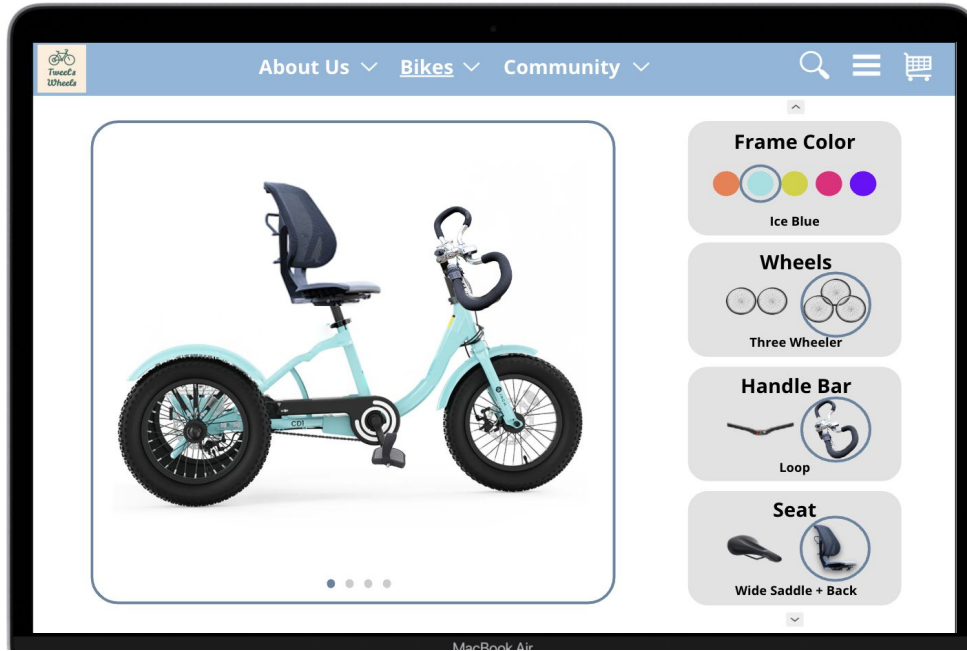
User Journey



“... as a kid I was **embarrassed** by it.”


























“The donation **waitlist was over a year**, so we paid out of pocket and it was **\$3,000.**”

Personalized, yet affordable adaptive bikes.



- ❖ User-centered design
- ❖ User-friendly website
- ❖ AI-powered customization
- ❖ Adjustable sizing
- ❖ Mass customization
- ❖ No exploitative pricing

Competition

Company	Tweel's Wheels	RAD Innovations	Van Raam	Rifton	Freedom Concepts
Design Forward					
Entry Price <\$1,500					
Customizable					
User-Friendly Website					
Adjustable Sizing					

Business Model



Retail Price
\$1,000*



Gross Margin
50%



**Outsourced
Manufacturing**

★ Initial Focus ★

1

**Direct to
Consumer**

Sell to customers
directly from TW's
website

+

2

**Business to
Consumer**

Sell through big-box
retailers
(i.e. Amazon)

+

3

**Business to
Business**

Sell to organizations
(i.e. therapy & play
centers)

*Price may vary depending on feature selection.

Go-To-Market Strategy - DTC

Target Segment: Cerebral Palsy Community



Leverage early adopters to influence others



Advertise on social media, blogs, and community forums



Attend trade shows, conferences, & networking events

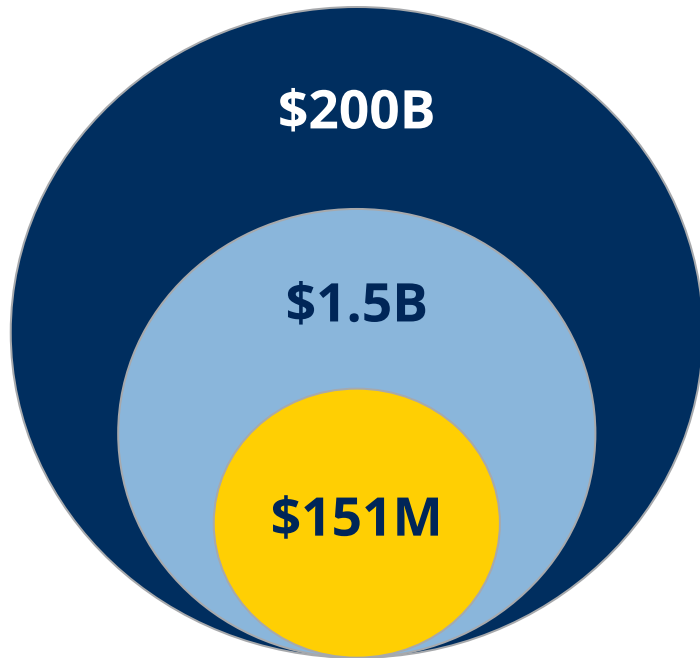


Create brand ambassador program

Visit relevant schools, centers, & facilities



Market Sizing



SOM

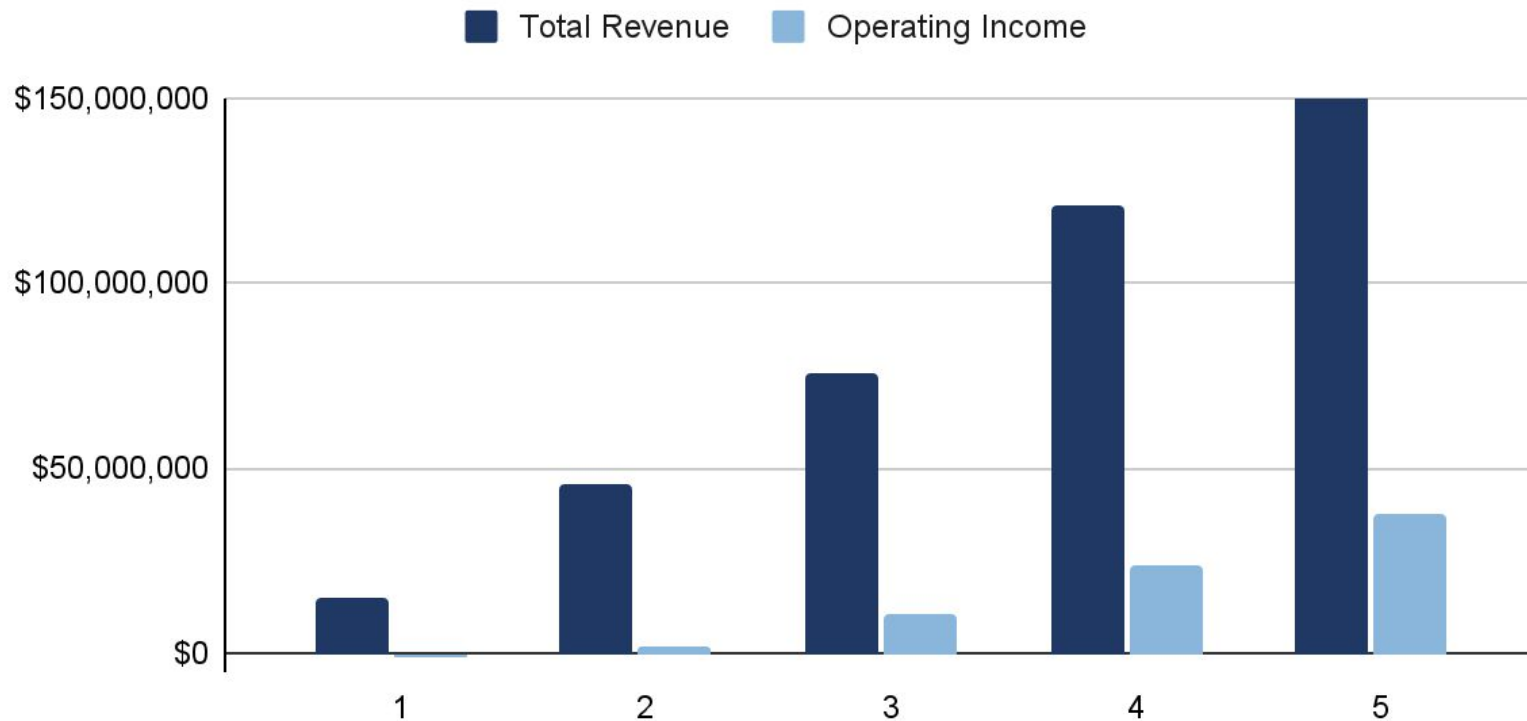
- ❖ Mobility challenges:
 - Cerebral palsy
 - Spina bifida
 - Limb reduction
 - Muscular dystrophy
 - Severe dyspraxia
- ❖ Age: 4-16 years old
- ❖ Region: U.S.
- ❖ 1% in Year 1 → 10% in Year 5

“This market is also growing .. as medicine advances, the lifespan of those born with disabilities increases.”

- Dr. Mark Peterson, Associate Professor of Physical Medicine and Rehabilitation at Michigan Medicine

Financial Projections

\$151M Revenue Projected in Year 5



Social Impact Metrics

Improve societal perception, inclusivity, and overall well-being of children with physical disabilities and their families.



Improve perception of the disabled community.



Include disabled children in group play.



Increase health and happiness.



Empower children through autonomy.



Eliminate exploitative pricing.



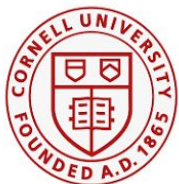
Reduce time and effort spent by parents.

Team

Management



Lauren Tweel
Founder & CEO



Advisory Board

Manufacturing



Donald Tweel
President & CEO of
Laural Home

Medical



Dr. Joshua Hyman
Columbia University
Pediatric Orthopedic
Surgeon
Clinical Director of
Weinberg Family Cerebral
Palsy Center



Physician
University of
Michigan
Pediatric Physical
Medicine &
Rehabilitation Center

Exit Potential

Acquisition

\$29M - \$111M Valuation

Year 5

Market Comparables

Van Raam

- ❖ Adaptive bike company
- ❖ Acquirer: Armira
- ❖ Purchase price: \$185M
- ❖ **Exit multiple: 11x**

Melissa & Doug

- ❖ Social impact driven toys
- ❖ Acquirer: Spin Master
- ❖ Purchase price: \$950M
- ❖ **Exit multiple: 10.5x**

Thank you!

Appendix

Market Sizing

Market Sizing

	US	Global
Total Available Market (TAM)		
Total Population	331,900,000	8,045,311,447
% of Population under 18	22.18%	29.80%
# Births per Year	3,659,289	140,000,000
# Years (Age Representation)	18	18
U18 Population	73,602,753	2,397,435,502
Total U18 Pop. with physical disabilities	6,514,386	200,071,051
Total U18 Pop. with severe physical disabilities	2,098,221	56,224,921
Dyspraxia	4,416,165	143,846,130
Severe dyspraxia	1,472,055	47,948,710
Cerebral palsy	500,000	5,065,858
Spina bifida	26,347	1,008,000
Limb reduction	81,000	1,482,353
Muscular dystrophy	18,819	720,000
Serviceable Addressable Market (SAM)		
# Years (Age Representation)	13	13
Total 4-16yr. Pop. with severe physical disabilities	1,515,382	40,606,887
Dyspraxia	3,189,453	103,888,872
Severe dyspraxia	1,063,151	34,629,624
Cerebral palsy	361,111	3,658,675
Spina bifida	19,028	728,000
Limb reduction	58,500	1,070,588
Muscular dystrophy	13,592	520,000
Serviceable Obtainable Market (SOM)		
Year 1 Market Capture	1%	
Year 5 Market Capture	10%	
SAM Year 1	15,154	
SAM Year 5	151,538	

TAM: 200M children

- ❖ Global
- ❖ Under 18
- ❖ Any physical disability

SAM: 1.5M children

- ❖ US
- ❖ 4-16 years old
- ❖ More severe physical disabilities

SOM: 15-151k children

- ❖ 1% of SAM in year 1
- ❖ 10% of SAM in year 5

Financials

Costing

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Inputs	Black Text
Calculations	Blue Text
Assumptions (w/ sources)	Green Text

Costing Inputs	
Freight	20%
Duty	11.3%
China Duty	10%
Allowance	5%
Storage	10%
Markup	50%
TW Retail Price	\$1,000.00
3rd Party Sugg. Retail Price	\$1,000.00

Retail price: **\$1,000**

Markup: **50%**

COGS: **\$500**

First Cost: **\$290**

Method	First Cost	Freight	Duty	Landed Cost	Allowance	Storage	COGS	TW Retail Price	TW MU	3rd Party Retail Price	3rd Party MU (shared)
Bike 1 - Entry Level											
Backward	\$289.52	\$57.90	\$61.67	\$409.09	\$50.00	\$40.91	\$500.00	\$1,000.00	50%	\$1,000.00	50%

Pricing Strategy

Adaptive			
Company Name	Min Price	Max Price	% Change
Rifton	\$2,260	\$5,920	162%
AmTryke	\$1,500		-
Triaid	\$1,500	\$2,300	53%
Freedom Concepts	\$3,400	\$6,700	97%
Vanraam	\$1,520	\$2,670	76%
Worksman Cycles	\$519	\$2,600	401%
RAD Innovations	\$5,280	\$11,280	114%
Average	\$2,283	\$5,245	150%

Traditional			
Company Name	Min Price	Max Price	% Change
Trek	\$280	\$700	150%
Specialized	\$150	\$3,800	2433%
Retrospec	\$99	\$220	122%
Cannondale	\$150	\$1,650	1000%
Scott	\$160	\$2,000	1150%
Cleary Bikes	\$260	\$1,000	285%
Average	\$183	\$1,562	857%

\$2,283 vs. \$183: **12x** more expensive
\$1,000 vs. \$2,283: **56%** less

Revenue Forecasting - Inputs & Assumptions

Startup Costs (fixed)	
Category	Amount
Total	\$131,462
SG&A	\$14,112
Business Setup Costs (incl. insurance &	\$1,875
Patent Fees	\$1,200
eCommerce Website Design	\$9,650
Domain name	\$106
Marketing	\$1,281

Startup Costs (fixed)	
Category	Amount
Research & Development	\$117,350
Product Design (by engineering contractor)	\$40,000
Prototyping	\$15,300
Tooling Costs	\$55,000
Upfront Cost of Inventory & Storage	\$5,150
Package Design	\$1,525
Distribution costs	\$375

Startup costs: **\$131k**
 Market pen.: **1→10%**
 SG&A: **20%**
 R&D: **35→5%**
 Employees: **1→4**
 Avg. Salary: **\$100k**

YoY Assumptions						
Category	Year 0	Year 1	Year 2	Year 3	Year 4	Year 5
Market Share (Serviceable Obtainable Market)	0%	1%	3%	5%	8%	10%
Revenue per Product	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
COGS per Product	\$500	\$500	\$500	\$500	\$500	\$500
Sales, General, & Administrative (% of Revenue)	0%	20%	20%	20%	20%	20%
Research & Development (% of Revenue)	0%	35%	25%	15%	10%	5%
Number of Employees	1	2	3	4	4	4
Average Salary	\$0	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000
Financing Raised	\$150,000	\$1,000,000		\$4,000,000		
Investment Round	Friends & Family	Seed		Series A		

Revenue Forecasting

Revenue Year 5: **\$151M** Operating Income Year 5: **\$37M** Breakeven: **Year 2**

Tweel's Wheels 5 Year Pro Forma						
	Year 0	Year 1 (est.)	Year 2 (est.)	Year 3 (est.)	Year 4 (est.)	Year 5 (est.)
Customers	0	15,154	45,461	75,769	121,231	151,538
Price (per product)	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
COGS (per product)	\$500	\$500	\$500	\$500	\$500	\$500
Revenue	\$0	\$15,153,820	\$45,461,460	\$75,769,100	\$121,230,560	\$151,538,200
COGS	\$0	\$7,576,910	\$22,730,730	\$37,884,550	\$60,615,280	\$75,769,100
Gross Profit	\$0	\$7,576,910	\$22,730,730	\$37,884,550	\$60,615,280	\$75,769,100
Gross Margin (%)		50%	50%	50%	50%	50%
Operating Expenses	\$131,462	\$8,534,601	\$20,757,657	\$26,919,185	\$36,769,168	\$38,284,550
<i>Sales, General, & Administrative</i>	\$14,112	\$3,030,764	\$9,092,292	\$15,153,820	\$24,246,112	\$30,307,640
<i>Research & Development</i>	\$117,350	\$5,303,837	\$11,365,365	\$11,365,365	\$12,123,056	\$7,576,910
<i>Personnel Expenses</i>	\$0	\$200,000	\$300,000	\$400,000	\$400,000	\$400,000
Operating Income	-\$131,462	-\$957,691	\$1,973,073	\$10,965,365	\$23,846,112	\$37,484,550
Operating Margin (%)		-6%	4%	14%	20%	25%
Cash Balance without Investment	-\$131,462	-\$1,089,153	\$883,921	\$11,849,286	\$35,695,398	\$73,179,948
Investment	\$150,000	\$1,000,000		\$4,000,000		
Cash Balance with Investment	\$18,539	\$60,848	\$2,033,921	\$16,999,286	\$40,845,398	\$78,329,948

Income Statement

Tweel's Wheels Income Statement

	Year 0	Year 1 (est.)	Year 2 (est.)	Year 3 (est.)	Year 4 (est.)	Year 5 (est.)
Total Revenue	\$0	\$15,153,820	\$45,461,460	\$75,769,100	\$121,230,560	\$151,538,200
Cost of Goods Sold (COGS)	\$0	\$7,576,910	\$22,730,730	\$37,884,550	\$60,615,280	\$75,769,100
Gross Profit	\$0	\$7,576,910	\$22,730,730	\$37,884,550	\$60,615,280	\$75,769,100
Sales, General, & Administrative (SG&A)	\$14,112	\$3,030,764	\$9,092,292	\$15,153,820	\$24,246,112	\$30,307,640
Research & Development (R&D)	\$117,350	\$5,303,837	\$11,365,365	\$11,365,365	\$12,123,056	\$7,576,910
Personnel	\$0	\$200,000	\$300,000	\$400,000	\$400,000	\$400,000
Operating Income	-\$131,462	-\$957,691	\$1,973,073	\$10,965,365	\$23,846,112	\$37,484,550
Interest Expense	TBD	TBD	TBD	TBD	TBD	TBD
Pretax Income	-\$131,462	-\$957,691	\$1,973,073	\$10,965,365	\$23,846,112	\$37,484,550
Taxes	-	-	\$414,345	\$2,302,727	\$5,007,684	\$7,871,756
Net Income			\$1,558,728	\$8,662,638	\$18,838,428	\$29,612,795

Exit

Valuation

Valuation Method	DCF
Exit Timing (year)	5
Sales at Exit	\$151,538,200
Earnings at Exit	\$37,484,550
Multiple at Exit	11
Discount Rate (min)	70%
Valuation (min)	\$29,040,252
Discount Rate (max)	30%
Valuation (max)	\$111,052,471

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Calculations	Blue Text
Assumptions (w/ sources)	Green Text

Exit Timing: **Year 5**

Multiple at Exit: **11x**

Discount Rate (min): **30%**

Discount Rate (max): **70%**

Ideal Acquirer:

- ❖ **Established toy company**
- ❖ **Adaptive bike company**
- ❖ **Traditional bike company**

Manufacturing

Manufacturing Facilities



Tianjin Fuji-ta Group

Synergies

- ❖ Kids' bikes
- ❖ Spare bike parts
- ❖ Outdoor toys
- ❖ Largest bike manufacturer

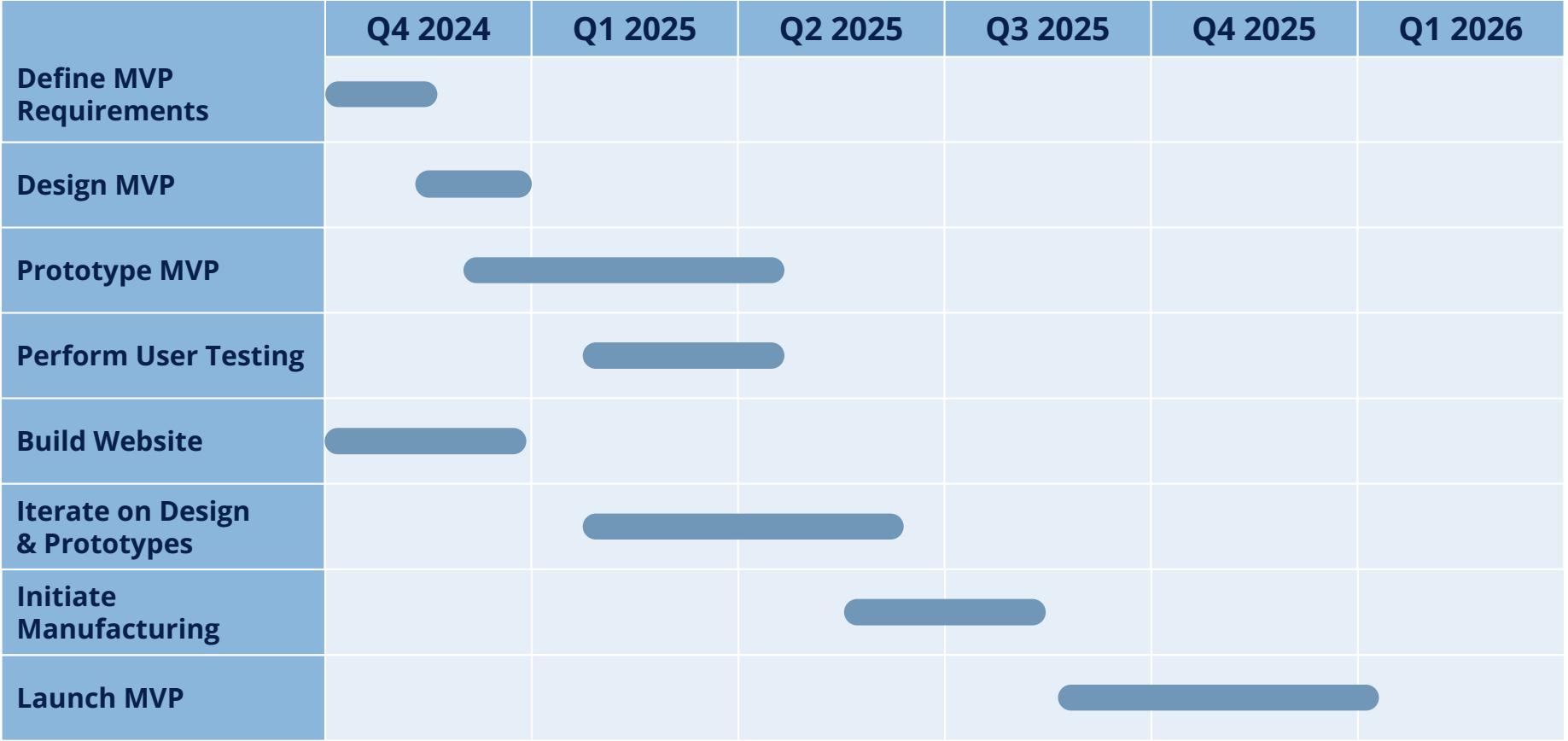
Ideal Bike Company

Synergies

- ❖ Innovative processes
- ❖ Custom designs
- ❖ Prototyping capabilities
- ❖ 40+ years experience

Product Development

Product Development Roadmap



Risks

Risks

- ❖ Gaining early product adoption
- ❖ Designing ineffective or problematic product
- ❖ Higher than expected or sustainable startup and manufacturing costs
- ❖ Securing necessary funding

Risk Mitigation

- ❖ Performing thorough user testing and iterating on feedback
- ❖ Conducting detailed cost analyses with input from various expert stakeholders
- ❖ Developing financial plans that consider diverse sourcing of funding
- ❖ Embracing lean startup principles and agile management

User Research

User Insights - Children (users)

“

"... as a kid I was embarrassed by it."

"My bike was too big and bulky so maneuverability was an issue... I couldn't even ride off the sidewalk."

"I didn't have gears so I couldn't keep up with my friends."

"I have a distinct memory of watching my siblings go off bike riding without me... that was really hard."

”

User Insights - Parents (customers)



“Hard to find exactly what you need and nothing is customizable.”

“Slap an adaptive label on it and the price goes up five fold.”

“The donation waitlist was over a year... we paid out of pocket and it was at least \$3,000.”

"There is a difference between being capable of doing something and being great at it."



User Insights - Physicians (influencers)

“

“I think you're onto something very interesting.”

“You're talking about something that is very timely.”

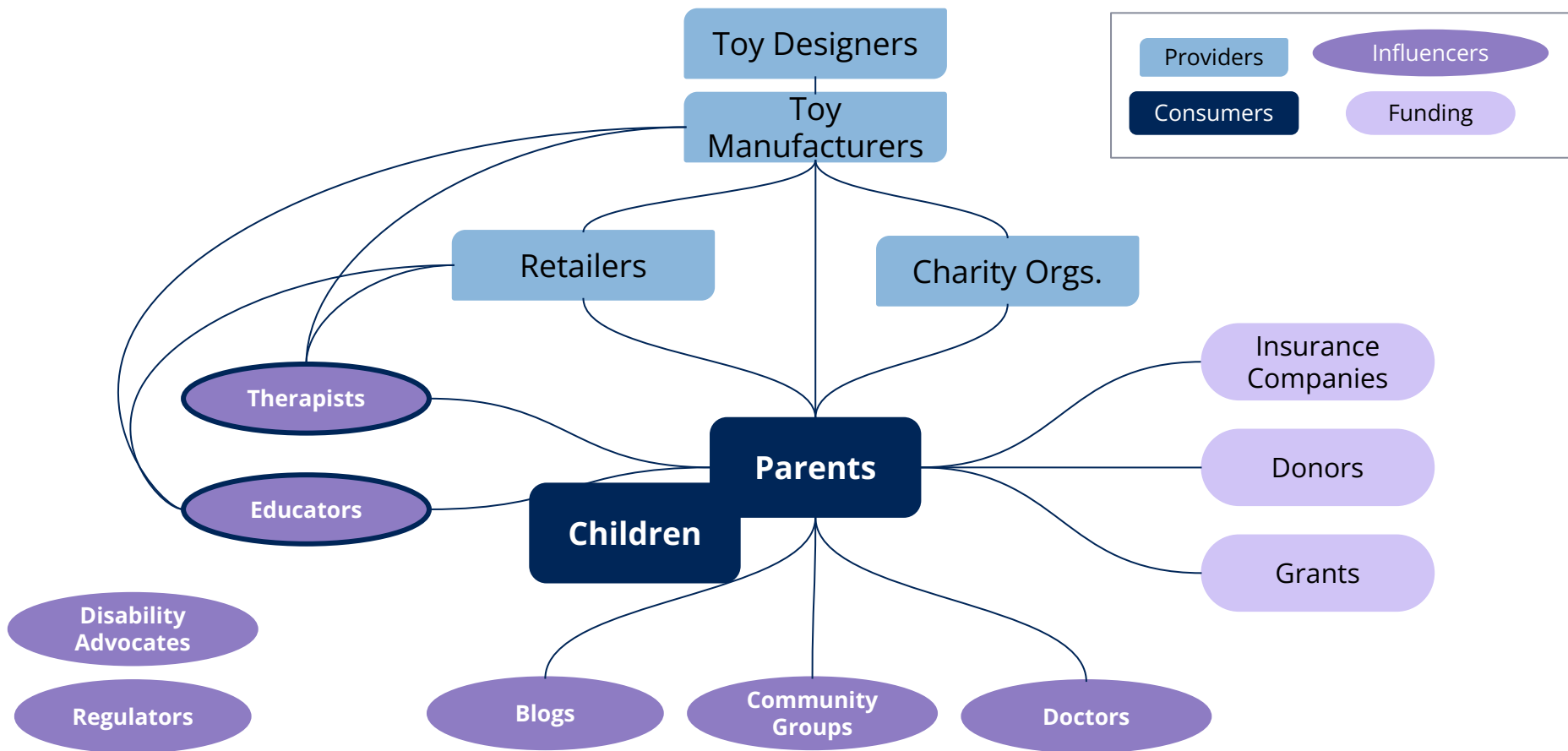
“Throughout my entire career and time as a dad to a son with CP, I have not seen a single toy designed for kids with mobility challenges.”

“There are significant opportunities for improvement in motor impairment cases, as these individuals can cognitively understand and engage in more activities.”

”

Impact

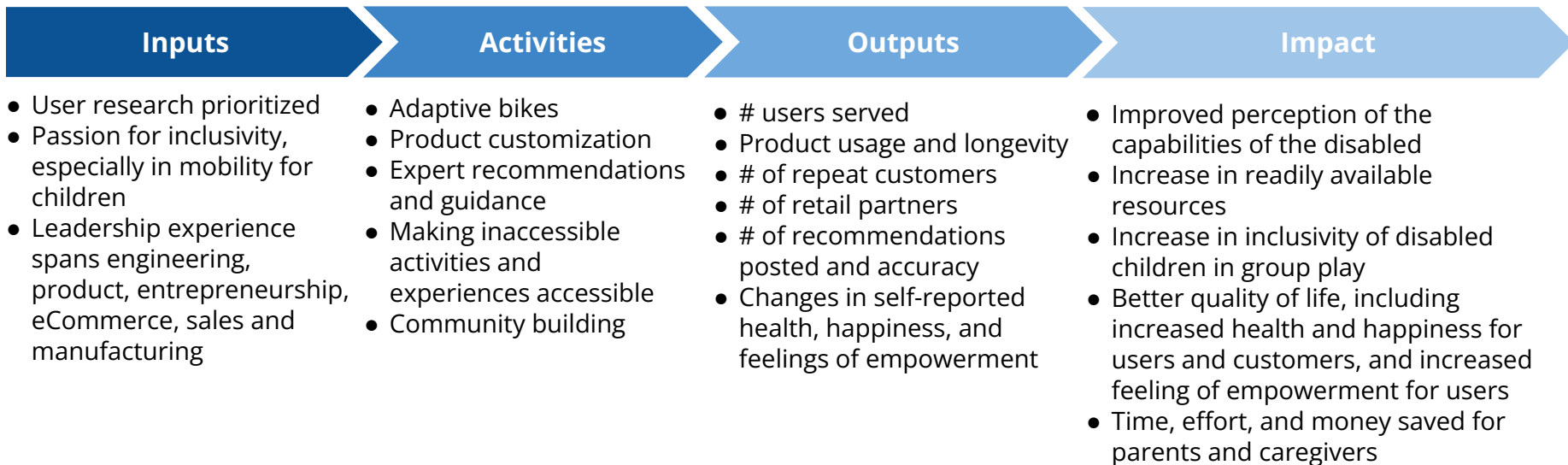
Ecosystem



Theory of Change

Problem: Few options of physical toys suitable for children with physical disabilities exist and those that do are hard to find, unappealing, and expensive.

Intervention: Tweel's Wheels' mission is to create easy to find, beautifully designed, and affordable play products that spark joy for children with mobility challenges.



Goal: Improved societal perception, inclusivity, and overall well-being of children with physical disabilities and their families.

Social Impact Calculator

Social Impact Calculator	
Category	Parameter
Scale of Problem & Importance of Change	Well-defined
	Size
	Severity
	Urgency
Intervention Rationale & Company Capacity	Potential effectiveness of inputs
	Additive to existing efforts
	Systematic vs. Incremental Change
Impact Measurability & Potential	Clear, logical, and measurable outputs
	Impact tracking commitment
	Impact scale compared to comps.
	Cost effectiveness compared to comps.
	Timeline compared to comps.
Mitigated Risks & Externalities	Execution risks
	Negative externalities
	Disparate impact on subgroups

Sources

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