

# SHOES OF PREY

Overcoming supply chain challenges

22 Feb 2017

#### Who am I?

Customised shoes 13 years



Operations consulting 5 years



## Customised shoes 1 year



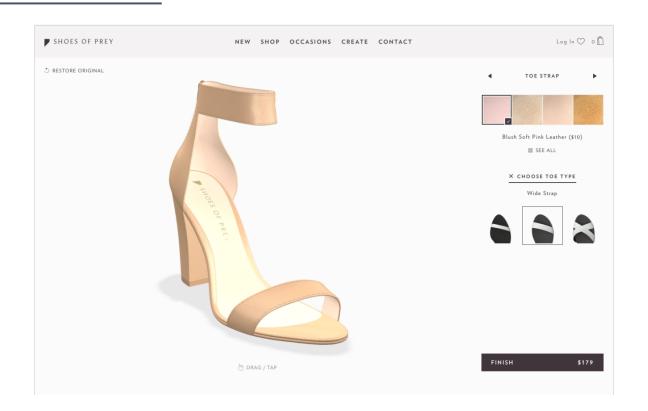


- 1. Shoes of Prey overview
- 1. Our supply chain strategy
- 1. Our challenges in delivery

## We make beautiful shoes. These don't yet exist.



## Until she customises them online, anywhere in the world.



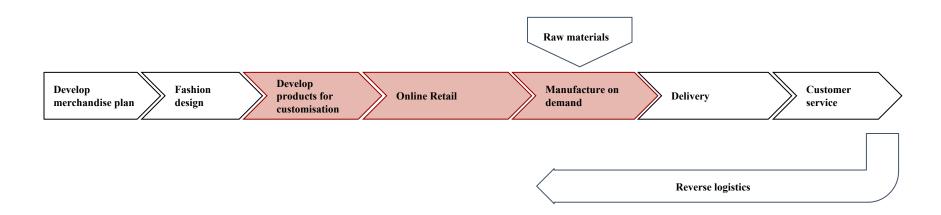
## We make those shoes and ship them to her in two weeks.





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## We insource differentiator capabilities.



## Our shipping costs are probably higher than any other footwear retailer in the world.



## We believe our supply chain should be optimised for the customer value proposition. Not for lowest cost logistics.

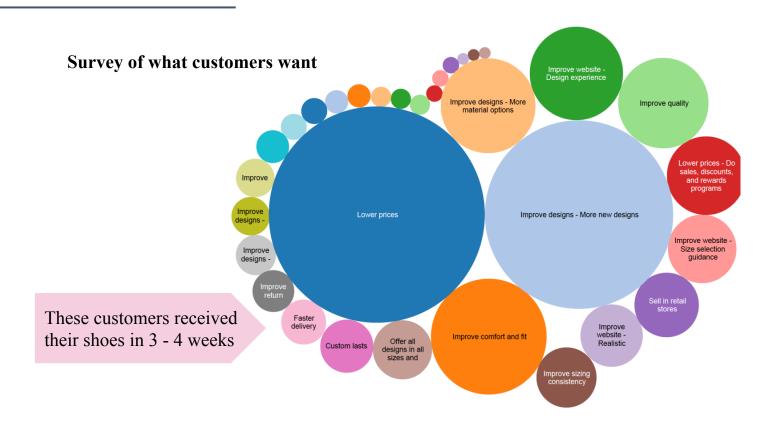




Customised shoes

Delivered in two weeks

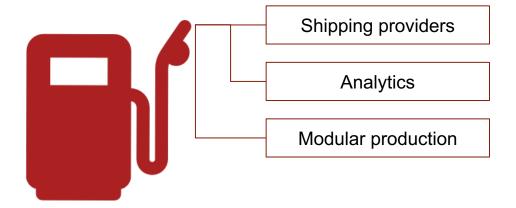
## Our customers think customised shoes in four weeks is okay. But we want to compete with non-customised shoes.



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## Our challenges in delivery.

#### Time & Money



### Reverse supply chain



## Logistics providers are starting to feel like commodities.



Prices are similar amongst providers.

Prices move up and down with fuel costs.

Where will innovation come from?

Are any step changes in efficiency coming?

## We are investigating new players.



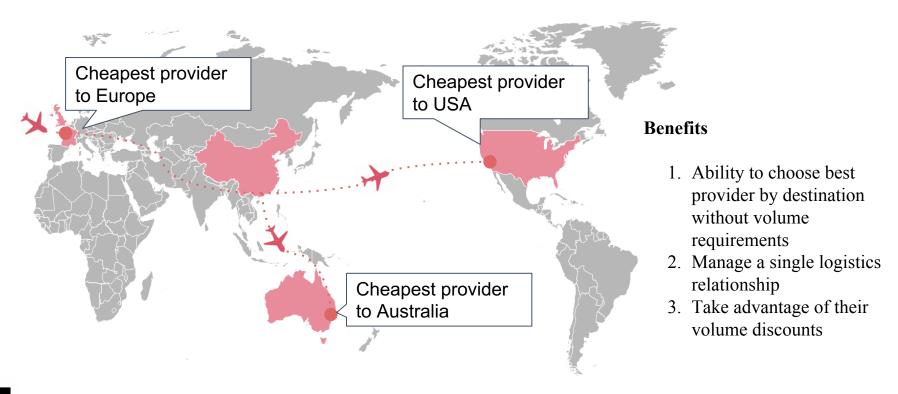
## Could there be an Expedia of logistics?

#### **Provider consolidation**

"Expedia, Inc. drives incremental demand and direct bookings to travel suppliers, provides advertisers the opportunity to reach a highly valuable audience of travel consumers, powers travel bookings for some of the world's leading consumer brands, and gives travel agents direct access to one of the broadest selections of travel products and services anywhere."



## One large Chinese online retailer is trying.

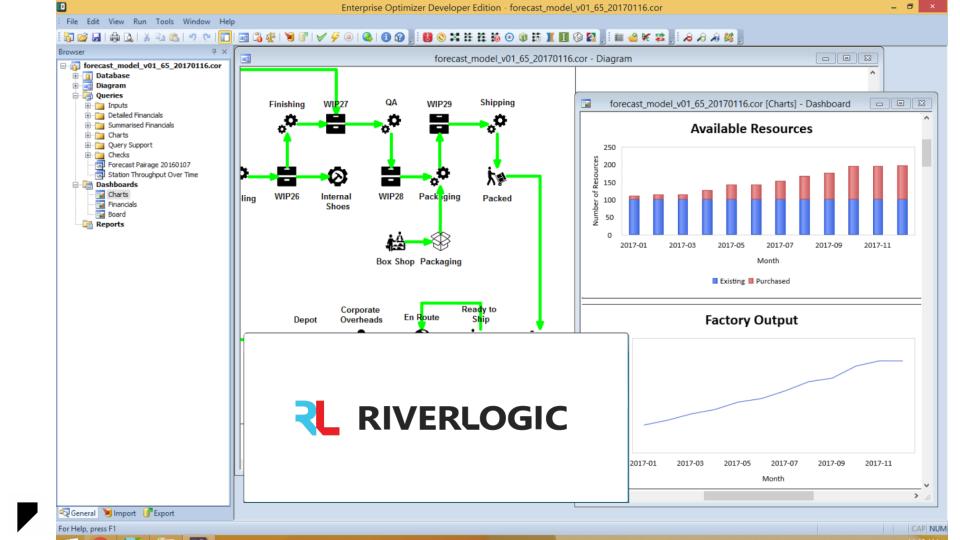


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  - a. Time & Money
    - i. Shipping providers
    - ii. Analytics
    - iii. Modular production
  - b. Reverse supply chain

## We are investing in **prescriptive analytics** to optimise for profit across the whole supply chain.

**Prescriptive analytics** Business Holistic optimisation value • "What's the best profit we can make?" **Predictive analytics** Statistical modelling of scenarios "How could we save more costs?" **Diagnostic analytics** Ad hoc analysis "Why did we lose money?" **Descriptive analytics** Automated reporting • "So what happened?"

Business intelligence of analytics approach



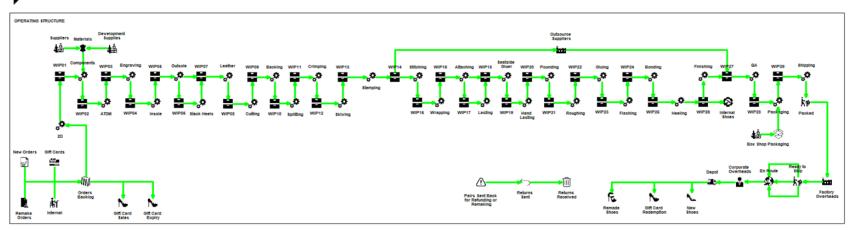
## Stage 1: Financial structure

FINANCIAL STRUCUTRE (USD) Internal Transfers Entity Financials in Pule (CNY) Pty (AUD) Dongguan Factory (USD) Sydney Office LA Office (USD) Online Channel SoP.comU\$ Online Financials (USD) VVholesale Financials (USD) (USD) OtherGiftPartners Rydges (USD)

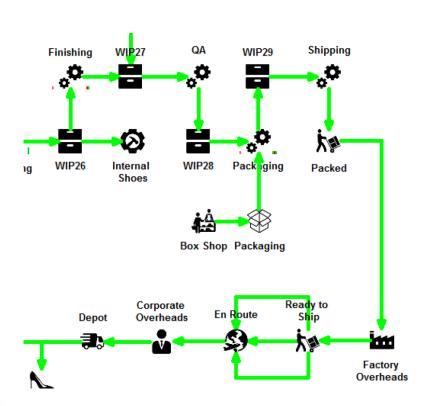
- Multiple entities
- · Multiple currencies
- · Transfer pricing
- · Consolidations and eliminations
- Full P&L, Balance Sheet, and Cash Flow by entity and sales channel

## Stage 2: Physical production

#### ▼ SHOES OF PREY

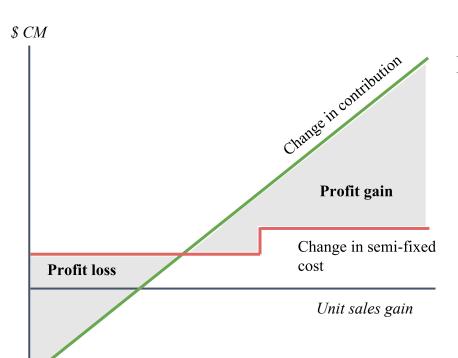


## Stage 2: Physical production optimisation



- Real process and equipment uptime and throughputs
- When to bring on which labour and equipment
- Optimal CAPEX investment mix and timing
- Which components or processes to outsource
- · Value bottleneck analysis

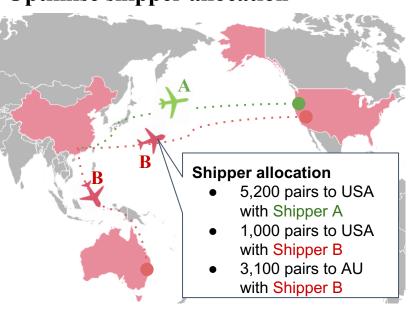
## Stage 3: Product price optimisation



- Optimal product category mix
- Volume change breakeven for various prices
- Considers step changes in semifixed costs like labour and equipment
- Pricing scenario analysis
- Considers regional pricing, delivery costs, and duty/VAT

## Stage 4: Delivery optimisation

#### **Optimise shipper allocation**



- Optimal allocation of packages to shipping providers, considering:
  - Unlimited number of providers
  - Weight and region rates
  - Package consolidation
  - Achievement of tiered volume discount rates across multiple shipping providers

## We are now developing Stage 3.



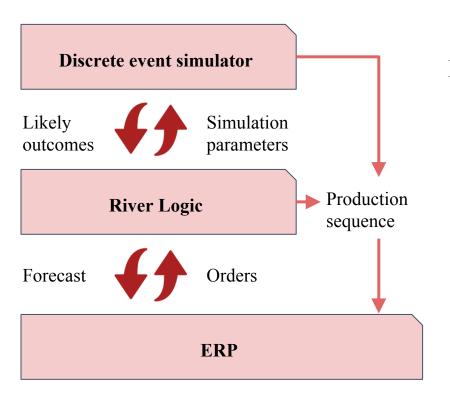
Stage 1: Financial structure

Stage 2: Physical production optimisation

Stage 3: Product price optimisation

Stage 4: Delivery optimisation

## Beyond... End to end supply chain optimisation.

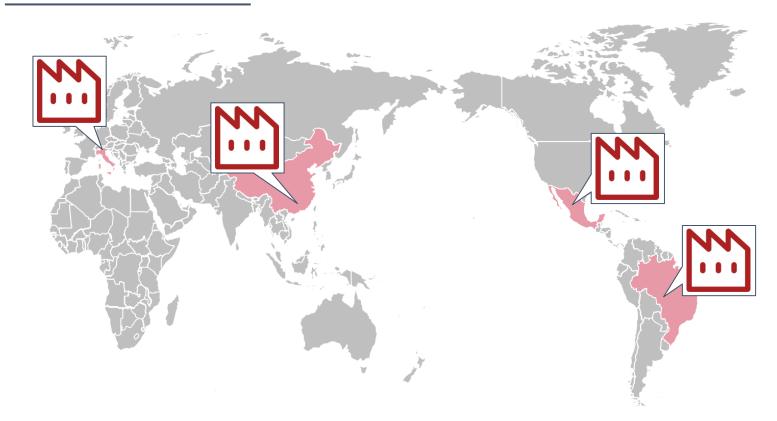


#### It will prescribe to us

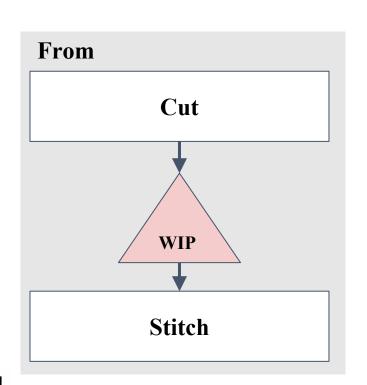
- Which price/delivery date combination to offer customers
- · Which order to produce when
- Which production to line to use per order
- Which shipping provider to use per order
- Which shipping product (time/cost) to use per order

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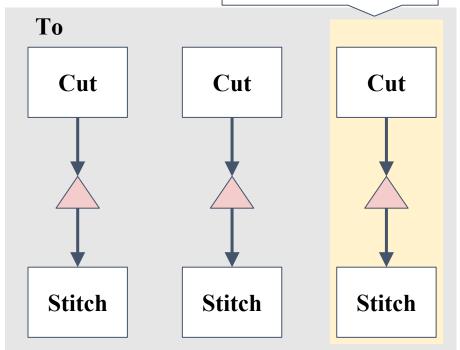
We are building a modular production capability. Why? So we can produce a customised product, anywhere.



## How: 1 Flexible and lean production lines

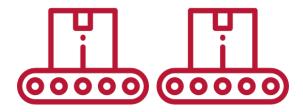


Minimum unit of production capacity



### How: 2 Standardisation

#### **Process**



#### **Materials**



#### **Equipment**



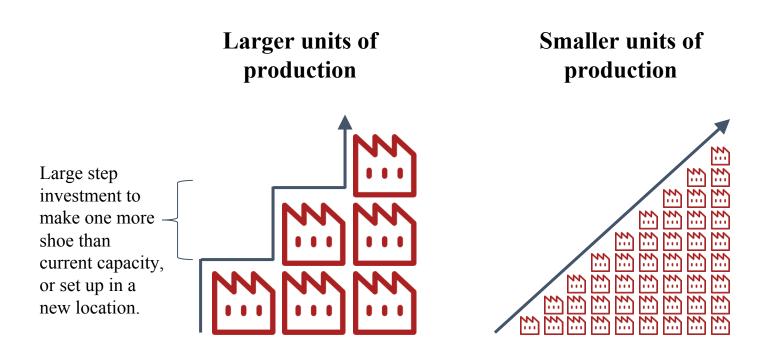
#### **Components**



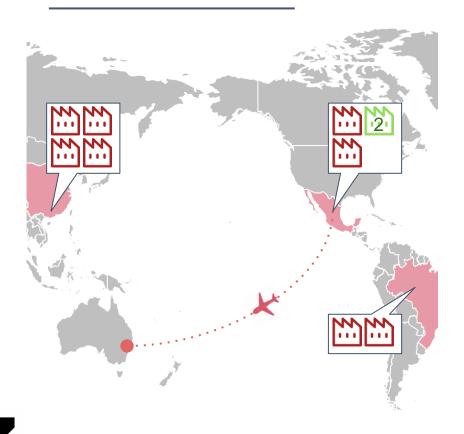
### How: 3 Zero stock mandate



## The goal is to approach linear capital expansion.



## *Underpinned by the analytics stack.*



#### **Customer order prescription**

- Make in Mexico, line 2 (MexL2)
- Start production on this date
- · Use Shipper B, 5-day economy

#### Why?

- MexL2 has spare capacity
- · All materials are in stock
- · Achieve the global volume discount with Shipper B
- Meet customer delivery promise

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## Returned product hurts us more than most retailers.



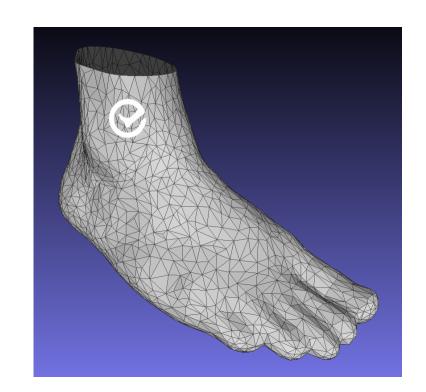
Some shoes, only a mother could love...

## We redeveloped our entire product range to reduce returns.

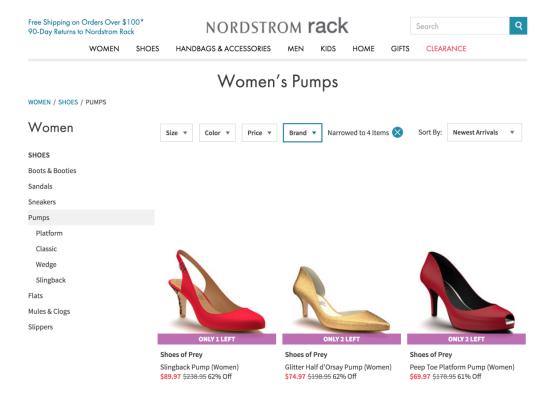


We are experimenting with better ways for people to get shoes that fit.





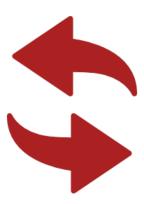
## But there will always be some returns.



## What can we learn from reverse logistics in China?







**Deliveries** 



