

## **Global financial model for the value chain**

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### **ABSTRACT**

The objective of this paper is to describe how a valuation decision model for a firm in a multi-country environment can be used to determine the optimal value chain. The paper extends the initial work of Rainish and Mensz (2012). The paper examines how a global firm can optimize its value chain and how that chain will be affected when the value of various key variables change. Variables were selected (e.g. labor costs, transportation costs and transfer price tax rates) from recent studies by consulting firms Deloitte (2013) and the Boston Consulting Group (2014). The data used in the model was extrapolated from the financial statements of a publicly traded multinational corporation and modified slightly in order to preserve anonymity. The model conclusively demonstrates that a firm's production decision to buy or build, the customer location and tax effects are interdependent and that the model to optimize the value of the firm and its value chain is a function of the interdependencies of the input and financing factors. The paper also briefly discusses its implications on government policy for the economy and the firm. The conclusions, recommendations and implications reached in this paper are generalizable and appropriated for developing best practices in value chain modeling global capital investment.

Keywords: Global capital investment, Value chain modeling, Transfer costing, Global production variables and value creation

## 1. Introduction

The objective of this paper is to describe how a valuation decision model for a firm in a multi-country environment can be used to determine the optimal value chain. The paper extends the works of Rainish and Mensz (2012) and examines how a global firm can optimize its value chain when various key variables such as: labor costs, transportation costs and transfer price tax rates change in value. To accomplish this at a conceptual level a model was developed which integrates the buy or build decision, the location of production, distribution decision and tax effects into the capital investment decision of the firm. This paper demonstrates that the model can be used to optimize the value chain and shows how the location of production changes as a result of changes in the various input factors. The paper also briefly discusses its implications on government policy for the economy and the firm.

## 2. Review of the Literature

The Rainish and Mensz paper developed a global financial valuation model that describes a valuation decision model for a firm in a multi-country environment. The paper extended the works of Myers (1974) which described the adjusted present value model (APV):

Myers and Pogue (1974) and Lev (1974) to include individual investment project decisions to the global marketplace. The model integrated the make or buy decision, the location of production, distribution decision and tax effects into the capital investment decision of the firm. The model showed that a firm's production decision (make or buy), the customer location and tax effects are interdependent. The model to optimize the value of the firm is a function of the interdependencies of the operational and financial factors. It further showed that significant modifications are required of the traditional theories used for the determination of a firm's capital structure and cost of capital. The paper also extended the valuation model to include the impact of location and outsourcing on a firm's operational and investment activities (Rainish & Mensz, 2012).

A recently study by Deloitte (2013) showed that labor costs, labor productivity and corporate tax rates are significant factors in determining country competitiveness and in developing a country competitiveness index. The Boston Consulting Group (Sirkin, Zinser, and Rose (2014)) in a study developed a measure of manufacturing competitiveness that included four direct economic indicators. The four factors were wages, productivity growth, energy costs and currency exchange rates.

## 3. The Model

The Rainish and Mensz paper used as its foundation the net present value (NPV) financial model. It is common for the firms to use NPV model for their investment decision as well as investors to assess the value of a firm. The traditional NPV model is described as follows:

Let's assume that value of the firm (VF) is derived from its  $n$  various investments/projects

$$VF = \sum_i NPV_i$$

and each investment  $i$  currently generates cash flows from its various  $j$  activities denoted by  $CF_{ij}$  or is expected to be in operation in future.

The value of the firm can now be expressed as sum of the present value of ongoing operations and the net present value of new and future investments

$$VF = \sum_i NPV_i = \sum_i \sum_j PV(CF_{ij}) + \sum_i NPV(\text{future})$$

Where:

$i = 1, 2, \dots, n$  and

$j = 1, 2, \dots, m_i$ .

CF = Free After-tax Cash Flow

Rainish and Mensz in their paper redesigned the above model to create framework for a global operations. In their model the following extra operational dimensions were included:

1. The distinction between local and foreign location was modelled using binary variable  $l = 1$  for domestic and  $l = 2$  foreign location (with the option to variable  $l$  can be further expand variable  $l$  to include more specific continent or economical region).
2. The ownership of activities was modelled using another binary variable  $k$ , where  $k = 1$  for own or make the activity,  $k = 2$  for buy (outsourc, lease, etc.)
3. Price differentiation for different customers was modelled by variable  $c$

Above expansions led to the following adjusted present value model for investment  $i$

$$APV_i = \sum_j PV(CF_{ij}) = \left[ \sum_j \sum_k \sum_l \left( \sum_c Q_{ijklc} * (P_{ic} - VC_{ijkl}) - FC_{ijkl} \right) \right] * (1 - t_i) + \sum_j t_i Dep_j +$$

$$+ \sum_i \sum_j \sum_k \sum_l (NCF_{ijkl}) + \sum_i \sum_j \sum_k \sum_l (TS_{ijkl}) - \sum_i \sum_j \sum_k \sum_l (CapEx_{ijkl})$$

+ Cost of monitoring + Value of Real Options + Value of Government Environment + Value of Interactions from Non-Long-term Financing Effects and Operations

Where:

$TS$  is the incremental present value of the net tax savings from the interest deductibility of the firm's debt financing and its cost of financial distress.

$t_i$  is an aggregated tax rate calculated as a weighted average tax rate at the customers' locations  $d$

VC – Variable Cost for Investment (includes taxes on production activities)

FC – Fixed Cost for Investment

Dep – Depreciation for Investment

NCF – Non-cash flow accounting adjustment effects for an investment

T – income tax rate for investment activity  $j$

P – price for product or service of investment

Q – quantity of product or service sold of investment

CapEx – capital expenditures for investment for investment dependent on current operations

Subscript  $ijklc$  refers to investment  $i$  activity  $j$  ownership  $k$  location  $l$  and customer  $c$ .

The detailed description of the developed APV model can be found in the source Rainish and Mensz paper (model quoted from Rainish & Mensz, 2012)

The above developed model with the applicable constraints can be used to find optimal solution for maximizing value chain of the firm. The constraints can model limited capacity in various locations, limited market demands, financial resources or specific firm or local policies. The model allows to examine effect of price changes, tax rates, cost of raw materials or local demands on such operational decisions as quantity produced at diff locations, make or buy decisions and in effect provides tool for more profitable and responsive operations.

The simplified form of the above theoretical model was used in simulations discussed in section 5.

#### **4. Discussion of Global Value Chain Tax Accounting and Data Uses in Analysis**

A firm's decision to establish a global supply chain in a specific country or region is often predicated on a combination of financial and non-financial variables. Non-financial variables may not be easily to quantify and accordingly are not considered relevant in this model. The data used in the model was extrapolated from the financial statements of a publicly traded multinational corporation (Subject Company) and modified slightly in order to preserve anonymity. The financial variables which this model considers relevant are discussed below:

##### **Transfer pricing**

Transfer pricing provides the vehicle for multinational firms to shift profits from high tax jurisdictions to lower tax jurisdictions. This effectively reduces the tax burden which in effect increases value by increasing overall profitability and value (Adams and Dertina, 2010). Broadly defined, transfer prices are the amounts charged for goods and services exchanged between divisions or units of the same company. The universally accepted approach for setting a transfer price is referred to as the arms-length standard.

The arms-length pricing standard reflects the price at which two unrelated parties agree to execute a transaction in an open market transaction. Despite the fact that countries worldwide use the arms-length standard to set transfer prices, they enact rules that can lead to different interpretations of what the price or the standard would be. Therefore, meeting the rules of one country does not guarantee that the other's requirements will be met (Mutti and Grubert, 2004). For the purpose of this study the subject company utilized a transfer pricing strategy that used a 15% of variable cost structure. Using that structure combined with the blended regional taxes rates a baseline net income or see-through profit of US\$3.60 per unit within each region was achieved. Indirect taxes such as VAT are considered neutral and have not been considered in setting the transfer price.

##### **Materials**

Materials consistent with the subject company data have been estimated to be US\$15 per unit and have been considered to be constant throughout the regions. Additionally, any indirect taxes are considered to be included in the materials cost.

### **Average manufacturing wage**

Average manufacturing wage is a significant variable to be considered in value chain as well as supply chain risk management since wages form an integral part of the products that are purchased or in the case of raw materials extracted. A regional a cross section of countries from the subject company's segment data was used to develop an average manufacturing wage rate. When applying average manufacturing wages to value chain management, it should be noted that further study would be necessary to develop a trending analysis since wages are not a static commodity. Labor rates have been adjusted for any estimated social taxes. The study considers costs as labor costs per unit.

### **International transportation costs**

International transportation costs are dependent on many factors but as noted in Hummel's (n.d) can be problematic when reviewing the price of goods at origin and price at destination. In a simplistic view, transportation costs for a product are a function distance, method and weight. Additionally, quality of transport and pricing of goods are also factors. A preliminary review of existing literature indicated that no comprehensive work relating to global transportation rates exists. Consistent with subject's company's data the study considered products were shipped FOB Destination to the United States and an extrapolated a rate based on the price of WTI crude oil at the range of US\$70-102 per barrel. Any change outside of the range would require an additional readjustment.

### **Facilities charges**

Facilities charges were estimated and consist of theoretical capital consummation costs. For the purposes of this study these costs include rent, depreciation and insurance as well as a provision for the related indirect ad valorem taxes.

### **Taxes**

Taxes are considered to be a significant environmental variable for multinational organizations (Doupnik and Perera, 2012). Sovereign governments have the authority to tax businesses if an economic relationship exists International taxation generally refers to the tax treatment of cross-national transactions (Goodspeed and Witte, 1999). These tax alternatives include direct taxes such as corporate incomes tax which are structure orientated as well as indirect taxes such as sales, value-added, property, excise and a host of others (Desai, Foley and Hines, 2004).

## **Indirect Taxes**

Indirect taxes also impact organizations that operate abroad; regardless of organizational structure, they will encounter a variety of different taxes (Choi and Meek, 2012). Indirect taxes are defined as charges levied by a jurisdiction on the consumption, expenditure, privilege or right. In a broad context these will include sales and use tax, value added (VAT), duties and customs, severance and a variety of other levy's that are less obvious than direct taxes as discussed below. Indirect taxes such as VAT are levied on the various stages of production. Severance taxes are associated with extraction activities most notable raw materials. Border taxes such as import and export duties are levied in order to stabilize pricing structures and sales or transfer taxes are levied on transactions between unrelated parties.

Indirect taxes are typically viewed as buried or hidden taxes and as such are infrequently disclosed. When considered in a supply or value chain management framework, indirect taxes can add significant cost to the flow of goods and services and accordingly need to be considered. For the purposes of this study indirect taxes are included in the respective variable costing structures.

## **Direct taxes**

Direct taxes are represented primarily by taxes levied on income and property. Based on how an organization structures its operations income can be taxed in many different jurisdictions. Regardless of the form an organization takes it may be subject to foreign income taxes. The concept of permanent establishment provides in part that if an organization has a physical presence or an economic connection in a jurisdiction it may be subject to a deemed branch profits tax. In general the existing system of treaties and protocols will mitigate any potential double taxation issues. When viewing direct taxes from a value chain management perspective, direct taxes will have much less of an impact on operations when the treaty and or protocol provisions are applied.

For the purpose of this study the tax variable represents a blended regional rate of regionally paid direct taxes. No investment incentives have been included. The blended rates used for Asia, Europe and Latin America are 21%, 25% and 27% respectively.

## **Retained earnings**

Retained earnings variable as described above in the transfer pricing structure represents the residual or embedded profit that gets transfers as a function of the structure itself. In the case of the subject company the see through profit is reduced to a percentage and is compliant with global transfer pricing requirements. In approaching it this way the subject company has mitigated the impact of cross jurisdictional tax issues which may have impacted the specific tax variables.

## **5. Simplified Model to Demonstrate Value Chain Profit Sensitivity for Changes of Input Factors**

For our case we are assuming that there are three foreign locations “*l*” producing a product for sale in the U.S. market. We are formulating the following maximization problem.

$$\max \text{Netprofit} = \sum_l Q_l * (P_{us} - TP_l)$$

Where:

$P_{us}$  – price in the United States

$TP_l$  – Transfer Price from location *l*

$Q_l$  – Quantity produced in location *l*

Each  $TP_l$ , which can be also interpreted as variable cost at the delivery in US is calculated as sum of all factors which contribute to the variable cost adjusted by Transfer Tax .

$$TP_l = \sum_{i=1}^7 C_{li}$$

Where

$C_{11}$  – material

$C_{12}$  – labor

$C_{13}$  – transportation

$C_{14}$  – facility charges

$C_{15}$  – local taxes

$C_{16}$  – retained earnings

$C_{17}$  – transfer tax calculated as

$$TP_l = \sum_{i=1}^6 C_{li} * TR_l \quad \text{where } TR_l \text{ denotes the transfer tax rate for location } l$$

In addition we assume a starting equilibrium state where each location has a capacity constraint of 100,000 units and total demand in the US is equal to 255,000 units which is 85% of the maximum total capacity.

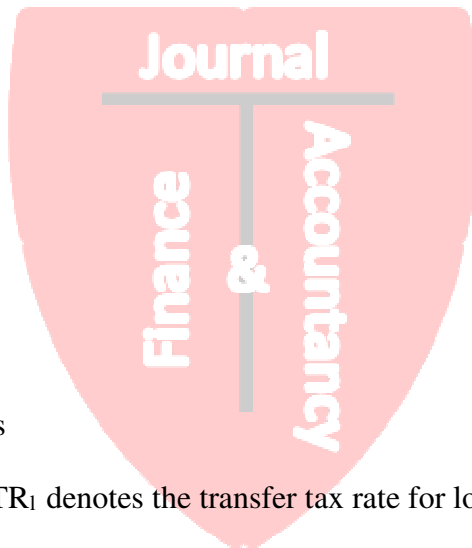
So the following set of constraints must be satisfied:

$$Q_l \leq 100,000 \quad \text{for } l=1, 2, 3$$

$$\sum_{i=1}^3 Q_{li} \leq 255,000$$

## 6. Case Analyses

The factors selected for the sensitivity analysis were based on the results of the studies by the Boston Consulting Group and Deloitte. The results of the various cases will attempt to



measure the implications of their conclusions and current trends in global market such as increasing labor cost (case 2) increasing transportation cost (case 3), increased labor cost in Europe (case 4A) and combinations of these scenarios (case 4B and 4C).

### Base Case

Our base case represents no preferences scenario with equal profitability in all three locations and capacity set up to 85% of the maximum.

#### Price in US/unit

#### Variable costs (\$US rounded)

Materials  
Labor  
Transportation  
Facility charges  
Taxes  
Retained Earnings  
Total Variable costs  
Tr. Tax Rate  
Tr.Tax (\$)  
Calc.Tr. Price  
Net income/unit

Asia	Europe	Latin America
45	45	45
15	15	15
7	10	8
4	2	3
3	2	3
2	2	2
5	5	5
36	36	36
0.15	0.15	0.15
5.4	5.4	5.4
41.4	41.4	41.4
3.6	3.6	3.6

**Implications:** Given constrains on capacity as long as net incomes are positive solution will not be affected.

### Result

As expected the results of this case is equal production in all 3 locations

Location	Asia	Europe	Latin America
Production/location	85000	85000	85000
TOTAL Profit	918000		



## Implications

Given constraints on capacity as long as net incomes are positive solution will not be affected.

### Case 1

For case 1 we relaxed capacity constraints to maximum in all locations and decreased Transfer tax rate in Europe from 15% to 10 percent. This automatically increased profitability in Europe.

	Asia	Europe	Latin America
<b>Price in US/unit</b>	45	45	45
<b>Variable costs (\$US rounded)</b>			
Materials	15	15	15
Labor	7	10	8
Transportation	4	2	3
Facility charges	3	2	3
Taxes	2	2	2
Retained Earnings	5	5	5
Total Variable costs	36	36	36
Tr. Tax Rate	0.15	.1	0.15
Tr.Tax (\$)	5.4	5.4	5.4
Calc.Tr. Price	41.4	41.4	41.4
Net income/unit	3.6	5.4	3.6

## Results

Given equal net income/unit in Asia and Latin America we received multiple solutions.

Location	Asia	Europe	Latin America
Production/location	100000	100000	55000
TOTAL Profit	1090000		

## Implications

The preferable location to produce is now Europe. Asia and Latin America produce balance of the demand. That means that symmetrical solution Asia – 55,000 and Latin America - 100, 000 would generate the same total net income.

As long as the cost/unit difference (TP) between Europe and other locations will not decrease by more than \$1.8 the solution stay the same

## Case 2

For case 2 we relaxed capacity constraints to maximum in all locations and increased labor cost in Asia from \$7 to \$9. This automatically decreased profitability of Asia as compare to Europe and Latin America.

	Asia	Europe	Latin America
<b>Price in US/unit</b>	45	45	45
<b>Variable costs (\$US rounded)</b>			
Materials	15	15	15
Labor	<b>9</b>	10	8
Transportation	4	2	3
Facility charges	3	2	3
Taxes	2	2	2
Retained Earnings	5	5	5
Total Variable costs	38	36	36
Tr. Tax Rate	0.15	.15	0.15
Tr.Tax (\$)	5.7	5.4	5.4
Calc.Tr. Price	43.7	41.4	41.4
Net income/unit	1.3	3.6	3.6

## Results

Given higher net income/unit in Europe and Latin America solution calls for maximum production in these locations and only balance in Asia.

Location	Asia	Europe	Latin America
Production/location	55000	100000	100000
TOTAL Profit	791500		

## Implications

The preferable locations to produce is now Europe and Latin America. Asia as less profitable produces only balance of the demand. As long as the cost/unit difference (TP) between Asia and other locations will not decrease by more than \$2.3 the solution stay the same

Case 3

For case 3 we relaxed capacity constraints to maximum in all locations and increased transportation costs at all locations by 20%. This will most impact Asia as the most remote location from the market in US.

	Asia	Europe	Latin America
<b>Price in US/unit</b>	45	45	45
<b>Variable costs (\$US rounded)</b>			
Materials	15	15	15
Labor	7	10	8
Transportation	<b>4.8</b>	<b>2.4</b>	<b>3.6</b>
Facility charges	3	2	3
Taxes	2	2	2
Retained Earnings	5	5	5
Total Variable costs	36.8	36.4	36.6
Tr. Tax Rate	0.15	.15	0.15
Tr.Tax (\$)	5.52	5.46	5.49
Calc.Tr. Price	42.32	41.86	42.09
Net income/unit	2.68	3.14	2.91

**RESULTS:** Similar to the case 2, based on net incomes/unit, solution calls for maximum production in Europe and Latin America and only balance of demand in least profitable Asia.

Location	Asia	Europe	Latin America
Production/location	55000	100000	100000
TOTAL Profit	752400		

**Implications**

The preferable location to produce is now Europe and Latin America. As long as the cost/unit (TP) in Europe will not go up by more than \$0.46 the solution stays the same. Similarly, as long as the cost/unit (TP) in Latin America will not go up by more than \$0.23 the solution stay the same

**Case 4A**

For case 4a we relaxed capacity constraints to maximum in all locations and increased labor costs in Europe by 15%, from \$10 to \$11.50.

	Asia	Europe	Latin America
<b>Price in US/unit</b>	45	45	45
<b>Variable costs (\$US rounded)</b>			
Materials	15	15	15
Labor	7	<b>11.5</b>	8
Transportation	4	2	3
Facility charges	3	2	3
Taxes	2	2	2
Retained Earnings	5	5	5
Total Variable costs	36	37.5	36
Tr. Tax Rate	0.15	.15	0.15
Tr.Tax (\$)	5.4	5.625	5.4
Calc.Tr. Price	41.4	43.125	41.4
Net income/unit	3.6	1.875	3.6

**RESULTS:** Similar to the case 2 and 3, based on net incomes/unit, solution calls for maximum production in Asia and Latin America and only balance of demand in least profitable Europe.

Location	Asia	Europe	Latin America
Production/location	100000	55000	100000
TOTAL Profit	823125		

**Implications**

The preferable location to produce is now Asia and Latin America. As long as the cost/unit (TP) in Europe will not go up by more than \$0.46 the solution stays the same. As long as the cost/unit (TP) in Asia or in Latin America will not go up by more than \$1.725, or cost in Europe will not go down by the more than 1.725 the solution stay the same.

**Case 4B**

For case 4B we relaxed capacity constraints to maximum in all locations, increased labor costs in Europe by 15%, from \$10 to \$11.50, and increased transportation cost by 30% across all three locations

	Asia	Europe	Latin America
<b>Price in US/unit</b>	45	45	45
<b>Variable costs (\$US rounded)</b>			
Materials	15	15	15
Labor	7	<b>11.5</b>	8
Transportation	<b>5.2</b>	<b>2.6</b>	<b>3.9</b>
Facility charges	3	2	3
Taxes	2	2	2
Retained Earnings	5	5	5
Total Variable costs	37.2	38.1	36.9
Tr. Tax Rate	0.15	.15	0.15
Tr.Tax (\$)	5.58	5.715	5.535
Calc.Tr. Price	42.78	43.815	42.435
Net income/unit	2.22	1.185	2.565

**Results**

Similar to the case 2, based on net incomes/unit, solution calls for maximum production in ASIA and Latin America and only balance of demand in least profitable Europe.

Location	Asia	Europe	Latin America
Production/location	100000	55000	100000
TOTAL Profit	543675		

**Implications**

The preferable location to produce is now Asia and Latin America. Solution is similar to 4A except that differences in profitability are smaller. As long as the cost/unit (TP) in Asia will not go up by more than \$1.04 the solution stays the same. Similarly, as long as the cost/unit (TP) in Latin America will not go up by more than \$1.38 the solution stay the same.

**Case 4C**

For case 4B we additionally increased cost of labor in Asia by 20%.

	Asia	Europe	Latin America
<b>Price in US/unit</b>	45	45	45
<b>Variable costs (\$US rounded)</b>			
Materials	15	15	15
Labor	<b>8.4</b>	<b>11.5</b>	8
Transportation	<b>5.2</b>	<b>2.6</b>	<b>3.9</b>
Facility charges	3	2	3
Taxes	2	2	2
Retained Earnings	5	5	5
Total Variable costs	38.6	38.1	36.9
Tr. Tax Rate	0.15	.15	0.15
Tr. Tax (\$)	5.79	5.715	5.535
Calc.Tr. Price	44.39	43.815	42.435
Net income/unit	0.61	1.185	2.565

**Results**

Increase in transportation costs and labor affected costs in all three locations but Asia became LEAST profitable.

Location	Asia	Europe	Latin America
Production/location	550000	100000	100000
TOTAL Profit	4085550		

**Implications**

The preferable location to produce is now Europe and Latin America. Solution is similar to Case 3 except that the most profitable location is now Latin America. As long as the cost/unit (TP) in Asia will not go down by more than \$0.57 the solution stays the same. Similarly, as long as the cost/unit (TP) in Europe will not go up by more than \$0.57 or cost/unit (TP) in Latin America will not go up by more than \$1.968 the solution stays the same.

**7. Summary and Conclusions**

This paper describes how a valuation decision model for a firm in a multi-country environment can be used to determine the optimal value chain. The paper extends the works of Rainish and Mensz (2012) to examine how a global firm can optimize their value chain and how it changes when various key factors (e.g. labor costs, transportation costs and transfer price tax

rates) change in value. The paper examines the models sensitivity and how it can accommodate changes in the value of the various inputs to maximize the value chain. The paper shows that changes in all input variables including governmental tax policies will impact the production location decision of a multinational firm.

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