

# **Guidebook of IP/Technology Transfer**

# **Track 1**

## **Entry-level Tech Transfer Professional**

### **Topic 1.8.2**

## **Envisioning Potential Products/Services, and the Value Proposition of an Invention**

# Envisioning potential Product/Service, and the Value Proposition

- Inventiveness leads to market relevance
- But, relevance to which markets?
- Based on the inventiveness of the invention, the TTP must imagine its applications

## **Assessing technical and market attributes: performing invention triage**

- What is it? How exactly does it work?
- What are its inventive features? How do they compare with current solutions?
- What problems does it solve? Is it important? What is the economic basis of that importance?
- Is the inventive solution economically feasible?

## **Assessing technical and market attributes: performing triage**

- What are its superior attributes?  
Faster? More accurate? Cheaper? New capabilities, more durable? Etc., etc,...
- How do these attributes translate into economic benefits? Quantify benefits whenever possible
- What is the stage of development (where in the R&D continuum?)

# Characterizing technical viability/market relevance

- Understand the economics of the problem solved
- What are its market applications?
- What are the market characteristics?
  - Size
  - # of companies
  - Typical profit margins
  - What is the innovation landscape? Are there any dominant companies?
- Are there significant regulatory hurdles?
- How does it compare with current alternatives
  - Different is usually not sufficient... you need superiority
- Quantify performance superiority, if possible

# Characterizing technical viability/market relevance

- Is the technology:
  - a paradigm shift (truly disruptive)?
  - a significant improvement?
  - a minor improvement?
  - no better than the alternatives?

# Characterizing technical viability/market relevance

- Can the invention be commercialized as a “stand-alone.....or are other components needed?  
(will licensing be complicated?)
- Is the surrounding technology space in a declining, advancing, or stagnate stage?

# Assessing technical and market attributes: a precursor to early valuation

- Define and quantify at least one “value proposition”  
(performance and economic justification for why someone will buy the product or service)
- What will be sold? Who will buy it? Why and how much will they pay?
- What portion of the product can be attributed to the invention?  
(the “Product Enabling Value”)  
Car vs. windshield analogy
- Are there extraordinary market factors?  
(regulatory hurdles, PR issues, unique competitors)
- What are typical profit margins in the market(s)  
Pharma vs. Farming

# Assessing technical and market attributes: a precursor to early valuation

- Cost of manufacture  
(e.g., wheat, semi-conductor, human drug)
- Investment required vs. "ROI"
- Is there a development "bottle neck"?  
potential flaws, difficult hurdles (e.g. human safety issues, environmental impacts, unreliable supplies, etc.?)
- Consider the "equation": stage of development vs. risk

# **Strengthening the Business Case:**

**define a feasible business model**

Describe how the technology will be turned into a product and/or service?

How will the product/service be sold and to who?

Why will they buy it?

Describe the feasibility of scale-up of manufacture, distribution, and sale

# Steps to Strengthening the Business Case

- Define the technical advantages over existing alternatives
- Describe how those advantages lead to economic benefit
- Define who has an interest in the economic benefit
- Quantify the economic benefit

# **Strengthening the Business Case**

**Develop at least one**

**Unique Value Proposition  
("UVP")**

# **The UVP of an invention concisely describes:**

The benefit(s) it will provide.....

**[describe them clearly, concisely, and thoroughly]**

....at a cost, that a future buyer (the customer) will perceive as a compelling “value”

“Value” = Benefits – Cost

**[define and quantify the benefits and costs]**

# The Unique Value Proposition (UVP)

- Explains how the invention provides this unique value (specific benefits – cost) to a future buyer, compared to alternatives.
- Is a clear and concise statement that summarizes why someone would buy the product or service based on the invention.
- Describes how the invention will produce a product or service that will add more value create more profit, or better solve a problem than current alternatives.

# The Unique Value Proposition (UVP)

- Makes it clear how the invention will solve future buyers' problems or improves their situation such that profitability is enhanced
- Identifies why the technology is superior to the competition (unique differentiation).

# What makes a good UVP?

- Clarity! It's easy to understand.
- Communicates concrete results that will result from using the technology and its products and/or services.
- States how it's different (and better) than the alternatives.
- Avoids hype (... "never seen before, amazing miracle product"), superlatives ("best"), and business jargon ("value-added interactions").
- Can be read/understood in about 10 seconds.

# UVP Examples

- “Achieves the same level of pest control as current chemistries at 30% cost reduction.”
- “Produces materials that exhibit 25% increased life at temperatures above 450°C at a cost comparable to existing high temperature materials.”
- “Increases the manufacturing yield of large Li batteries by 50% with no cost increase”

# UVP Examples

“A natural topical antiseptic 90% as effective as current chemical antiseptics.”

“A tomato variety that exhibits 50% more solids and 25% more sugar per unit weight than currently available varieties.”

“Reduces scours mortality in new-born calves from 15% to 1.5% at a cost of less than 6 Pesos per animal.”

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**Thank you**