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1.0 Executive Summary

Overview

AgaMatrix is a development stage venture based in Boston offering proprietary Digital Signal Processing (DSP) technology that dramatically improves the functionality and performance of biosensor devices. AgaMatrix's core DSP algorithms solve a number of immediate problems in the medical devices market by significantly boosting the performance of biosensors without costly specialized hardware and additional chemicals. Initially, AgaMatrix will sell to medical device makers, specifically, **home blood glucose monitors** and **hospital point-of-care blood analyzers**. AgaMatrix anticipates achieving positive cash flow by year three with future target healthcare segments to include the large immunoassay and implantable biosensor sectors; as well as other vertical industries that heavily rely on biosensors, such as the military chemical agent detection, environmental air/water quality monitoring, and industrial processing sectors.

Problem – Glucose Monitors Are Burdensome, Painful To Use

Many diabetic patients fail to use home blood glucose devices as prescribed because the regimen is too burdensome or too physically painful. Four to seven times a day, a patient must puncture his or her finger to draw blood onto a test strip for insertion into the glucose biosensor. The average compliance rate for testing is less than 1.5 times a day, resulting in the acceleration of complications caused by diabetes, such as blindness, stroke, and heart and kidney failure. In fact, diabetes is the leading cause of blindness in individuals aged 20-74 and better glucose monitoring compliance is the single biggest key to prevention. Device makers have identified the physical pain of using existing devices as the root cause of non-compliance, and they are seeking ways to reduce the sample size required by their devices. AgaMatrix technology will enable less invasive drawing mechanisms to meet the overwhelming demand for less painful alternatives.

Problems in the hospital blood analyzer market are more related to the lack of the comprehensiveness and accuracy of the devices, which results in reduced adoption levels. AgaMatrix's value proposition to this market is very clear: devices that are more accurate and sensitive will stand a higher chance of being more readily adopted.

A Software Solution for a Hardware Problem

Historically, the biosensor device industry has attempted to overcome problems related to accuracy, sensitivity, and robustness by enhancing the chemical (hardware) aspects of the devices, such as the biological and chemical design of their sensors. By contrast, AgaMatrix is pioneering a software approach based on digital signal processing (DSP) algorithms that has a number of distinct practical advantages, including lower cost, easier/faster upgrade capability, and complementarity with respect to a wide variety of chemistry/hardware-based biosensor technologies.

AgaMatrix's solution, consisting of a suite of software modules, enables new functionality and dramatically improves the performance of biosensor devices. Performance improvements include the ability to leverage increases in signal-to-noise ratio to reduce blood sample requirements. For the professional healthcare market, AgaMatrix offers the ability to improve the overall accuracy and sensitivity of hospital point-of-care analyzers. Boosting accuracy removes a major roadblock hindering widespread adoption of portable blood analyzers in place of conventional laboratory equipment.

Software DSP solutions have been vital to the success of many other industries where physical limitations would have impaired their growth. For example, in the 1980s, makers of CD players relied on oversampling and error-correction algorithms to compensate for low quality hardware filters and to overcome disk-skipping problems. AgaMatrix's algorithms provide analogous solutions in the biosensor space.

Business Model – Software Licensing and Royalty Fees from Device Makers

Initially, AgaMatrix will operate as a technology licensing company, deriving royalty revenue streams based on device makers' consumables sales (i.e., disposable test strips and cartridges used in the devices). Revenues will be acquired from the sale of the technology to home blood glucose device makers, hospital point-of-care blood analyzer makers, and minimally invasive and implantable blood glucose biosensor developers.

Therasense – an Illustration of How Disruptable the Glucose Market Is

Just a few years ago, the blood glucose market was dominated by four major players (numbers represent annual revenues from test strips): Roche (\$1.27B), J & J (\$1.09B), Bayer (\$650M), and Abbot (\$450M). These companies have been around since the 1980's. Therasense (THER) was founded in 1996, rolled out their first product in June 2000, and leveraged their key differentiator (very similar to what AgaMatrix is offering): the ability to reduce blood sample volume to make glucose testing less painful. In the span of less than two years since their product roll-out, they have achieved \$200 million in annual revenues, gone public, and now have a market capitalization of over \$800 million. Bottom line: this is a market that is very open to new technological entrants, especially when they are able to reduce pain for the user.

Competitive Advantages

There are no direct competitors pursuing our highly unique and proprietary approach, developed over the past seven years by our world-class scientific team. AgaMatrix technology will be complementary to potential indirect competition from the in-house laboratories of major medical device makers. The sustainable competitive advantages that AgaMatrix commands include:

- Superior software paradigm, complementary to chemical (hardware) advances in biosensors.
- Expertise developed over the course of seven years of biosensor research.
- Monopolization of the scientific team responsible for the original paradigm innovation.
- Development lead time of at least two years over potential competition.
- Intellectual property strategy involving two core utility patents (filed) and three defensive utility patents.

Customer Traction

We have approached two blood glucose monitor makers and one hospital point-of-care device manufacturer as potential customer targets. There are over 20 other major potential target companies we have not yet approached. The following is a summary of the current status of the companies we have reached:

- Strong interest to partner from two blood glucose monitor companies (discussions with Presidents); details are confidential at this point, but we believe we will be able to close a deal by June 2002.
- Strong interest from a leading blood glucose monitor maker (J & J discussions with Director-level staff) and the leading hospital point-of-care device maker (i-STAT – discussions with Vice President and Director-level staff).

The Team

A current team composed of:

- The three leading scientists pioneering the use of digital signal processing to improve biosensor technology, with an aggregate of over 40 years of direct DSP/biosensor research experience.
- Entrepreneurs who have founded, built and run an enterprise software company.
- An expanding board of veteran advisors made up of medical doctors who have healthcare business experience.
- An additional technical team of three committed to joining the company post-seed financing, composed of engineers from MIT and Tufts, with technical management experience and an aggregate of over 25 years of commercial engineering experience.

Financing

AgaMatrix has been self-funded by the principals of the company since its founding in July 2001. The company recently closed a seed round of \$500K from a number of healthcare angel investors and IncTANK, an early stage venture capital fund. A Series A round is expected in four to five months of approximately \$1 million.

The objectives of these rounds of funding are the completion of version 1.0 of the products and the acquisition of at least one paying customer over a period of 13 months of operations. Given the current state of customer traction and product development, we believe these milestones are reasonable. The company expects to raise an institutional or another private round of about \$4 million by May 2003 to be cash flow positive. Current valuation drivers include:

- A world-class scientific team consisting of Dr. Sridhar Iyengar (CTO), Dr. Justin Gooding, and Dr. Ian Harding, the engineering team, and an aggressive business team with start-up and management experience.
- Technology applicable to a number of other vertical markets and protected by a rigorous IP strategy.
- External validation from existing relationships with potential customers and advancement to final rounds in a number of national business plan competitions.



Highlights

1.1 Objectives

- Develop technology solutions that will increase the adoption and compliance rates of diagnostic medical devices by improving the functionality and performance of biosensors, specifically for home blood glucose monitors and hospital point-of-care blood analyzers.
- Achieve positive cash flow by year three.
- Reach \$50 million in annual revenues by year four.
- Expand into other industries that heavily rely on biosensors, including industrial processing, environmental monitoring, and military sectors.

1.2 Mission

AgaMatrix develops solutions to power next-generation biological and chemical sensor systems. The value that AgaMatrix delivers to this market is the ability to dramatically improve the accuracy, sensitivity, and robustness of a range of different sensors for the purpose of making medical diagnostic devices more effective. AgaMatrix's technology enables the development of devices that will be essentially painless to patients and that will meet the demand for better accuracy in medical diagnostics. It is committed to providing software solutions for a critical hardware problem that affects millions of diabetic patients and hospital patients worldwide.

2.0 Company Summary

Company Overview

AgaMatrix, Inc., which was incorporated in Delaware in 2001, is an early-stage venture offering proprietary Digital Signal Processing (DSP) technology that dramatically improves the functionality and performance of biosensor devices. AgaMatrix's core DSP algorithms solve a number of immediate problems in the medical devices market by significantly boosting the performance of biosensors without costly specialized hardware and additional chemicals. Initially, the company will sell technology solutions to diagnostic medical device makers, specifically, manufacturers of home blood glucose monitors and hospital point-of-care blood analyzers. Future target healthcare segments include the immunoassay and implantable biosensor sectors. Its headquarters are located in Cambridge, Massachusetts.

2.1 Company Ownership

AgaMatrix is a privately-held Delaware corporation, subchapter C. It was created in 2001. Sonny Vu and Sridhar Iyengar, the company's founders, own the majority of equity. Members of the board of directors and advisors also hold minority stock positions. All employees of the company are rewarded with stock compensation packages.

2.2 Start-up Summary

Table: Start-up

AgaMatrix's start-up costs amount to \$4,900, which covers the initial expenses for opening the first office. These costs include incorporation of the company, design of the company logo and website, purchase of office and IT equipment, and other miscellaneous expenses. The start-up costs are financed by direct owner investment. The assumptions are detailed in the following table and illustration.

Start-up	
Requirements	
Start-up Expenses	
Legal	\$400
Stationery etc.	\$200
Brochures	\$1,000
Rent	\$1,000
Expensed Equipment	\$2,000
Other	\$300
Total Start-up Expenses	\$4,900
Start-up Assets Needed	
Cash Balance on Starting Date	\$1,515,100
Other Current Assets	\$0
Total Current Assets	\$1,515,100
Long-term Assets	\$0
Total Assets	\$1,515,100
Total Requirements	\$1,520,000
Funding	
Investment	
Seed Round Pre-Plan	\$500.000
Series A	\$1,000,000
Other	ψ1,000,000
Total Investment	\$1,500,000
Current Liabilities	
Accounts Payable	\$5,000
Current Borrowing	\$0
Other Current Liabilities	\$0
Current Liabilities	\$5,000
Long-term Liabilities	\$15,000
Total Liabilities	\$20,000
Loss at Start-up	(\$4,900)
Total Capital	\$1,495,100
Total Capital and Liabilities	\$1,515,100



Start-up

3.0 Products

AgaMatrix will develop a set of software products that provides critically needed diagnostic functionality to current and next-generation medical biosensors. Optimized for computational efficiency, they are designed to be easily incorporated into a number of leading biosensor platforms. All products that we develop will be powered by our core DSP algorithms with certain features configured and optimized for the relevant applications. Our algorithms will be delivered in a format that is convenient and useful to our customers; as such, each AgaMatrix Product Suite will consist of a core DSP engine supplemented with integration tools, application-specific expansion modules, and professional services. Since our initial product focus is OEM technology, we will work closely with our customers and partners in the development and deployment of our products. The core DSP algorithms will be encoded as a platform technology in modular components that can be rapidly configured as needed for various customers' applications.

Initially, we are marketing one product for the glucose biosensor market and one product for the hospital POC market:

- Suite Name: AccuMatrix
- Target Customer: Smaller Home Glucose Biosensor Manufacturers
- Why Needed: These customers need a method of suppressing interference from other known chemicals in the blood (vitamin C, Tylenol, and uric acid) that can react at the biosensor and give erroneous readings. They need to be able to suppress these interferences without the use of chemical mediators or expensive membranes.
- Suite Name: **PosiMatrix**
- Target Customer: Hospital Point-of-Care Manufacturers
- Why Needed: These customers need a method of alerting the user when unknown chemicals in the blood interfere with the biosensor and give false positives. E.g., the FDA regularly approves new anesthetic gases that are used in surgery; however, the POC makers cannot keep up with these new "unknown" chemicals that may be present in the patient's blood and can interfere with the device. For one POC maker, it is

"medically imperative" for them to avoid reporting false readings; thus, they need a method of identifying when the reading is corrupted by unknown chemical interference so that they may indicate to the user that the reading is not valid.

The core DSP algorithm engine contains all the needed functionality. Using a Configuration Tool, we can rapidly integrate the appropriate Data Modules that are appropriate for the target customer. These Modules contain a library of information that is needed to configure and optimize the core algorithms for the chemicals that are relevant to the customer's device. Once configured, the algorithms will be delivered in the appropriate software or ASIC-design version for the target device and can be deployed with our Integration Tools by our Professional Services Deployment Team or by the customer's engineering team. The basic components of each AgaMatrix Suite will include the following:

Core Engine

Core DSP technology software and firmware code base will consist of a major portion of the algorithms that AgaMatrix develops. These algorithms will be activated as needed for each customer's requirements by the Configuration Tools.

Data Modules

These are libraries that contain empirical data needed to optimize the core DSP engine for the detection of different chemicals in various operating environments. The Configuration Tools will in part use the data from these Data Modules to customize the software for customers' various products. We will initially offer the following 2 modules:

- Blood Glucose Data Module: Library of empirical information of the standard chemicals that are commonly encountered in blood glucose measurements. This data is used to optimize the core algorithms for detection of glucose and suppression of common interfering chemicals.
- Point-of-Care Data Module(s): Library of empirical information of the standard chemicals that are commonly encountered in various blood chemistry measurements routinely performed by point-of-care devices. This data is used to optimize the core algorithms for detection of each of the relevant chemicals and suppression of common interfering chemicals.

As market and customer needs dictate, future offerings will include the following Modules:

- Implantables Data Module: Library of empirical information on quantities that are relevant to implantable glucose sensors. This data is used to optimize the core algorithms to correct for sensor deterioration (fouling) effects and suppress signals from interfering chemicals while boosting the signal from glucose.
- Immunoassay Data Module(s): Library of empirical information of the standard chemicals that are commonly encountered in relevant immunoassays. Immunoassay Data Modules will be developed for each immunoassay that is of interest to the customer. This data is used to optimize the core algorithms for detection of the relevant chemicals for the given immunoassay.

Configuration Tools

Configuration tools are the front-end interface of the software. This set of tools will allow for the rapid optimization and configuration of the core algorithms for various functionalities and chemicals. These tools are used to select which Data Modules and algorithms are needed for the customer's application and generate the end product, which can be delivered either as software/firmware for the target device or be delivered in the form of an ASIC design.

Code Integration Tools

This set of tools facilitates the integration and customization of software and firmware code base into customers' products. These tools may be used by our Professional Services Deployment Team when integrating the product into the customers' end-device, or they may be used by the customer's in-house engineering teams themselves. Initially, we will include:

- Software Integration Tools: Tools that facilitate the integration of our technology onto microprocessor-based devices.
- Firmware Integration Tools: Tools that facilitate the integration of our technology onto firmware-based devices.

Technology and Development Tutorials

These are in-depth, easy-to-use online tutorials consisting of scientific and engineering guides to help quickly bring a development and integration team up to speed on AgaMatrix's DSP technology. The tutorials will consist of code examples, customization, and integration tutorials.

Professional Support Services Package

A set of professional services, including software/firmware development and QA/QC testing, designed to assist in supporting the use and maintenance of the AgaMatrix Product Suites for customers and partners.

Based on initial discussions with potential customers, we believe that we can deliver our product in a format that will be readily usable by their development and integration teams. We will use established processes analogous to those used in the deployment of enterprise software solutions where a Deployment Team will assist the customer in the integration of our product into their devices, as indicated by the professional services component of our product offering.

4.0 Market Analysis Summary

Medical diagnostics has the greatest *existing* opportunity from an industry size perspective as well as the degree of match between existing needs and AgaMatrix's technology capability. The sub-segments in this market that the AgaMatrix product line is addressing in the short term (within the next two to three years) are the large, high-margin consumer blood glucose monitor market and the now quickly growing hospital point-of-care device market, i.e., customers are makers of these devices. Even by a conservative estimate, the value proposed by AgaMatrix to the glucose market alone would be enough to sustain a viable standalone venture. However, given the minimal incremental effort that would be needed, we will deliver the product to both sub-markets for the benefit of augmenting and diversifying our revenue streams.

The market that we are concerned with consists of advancing medical devices and technologies that allow healthcare professionals and home users to acquire medical diagnostic data such as blood glucose levels (e.g., for diabetics) and various other blood chemistry data (e.g., for emergency care situations) instantly, easily, cheaply, and accurately without having to send blood samples to centralized lab facilities which have longer turnaround times and are more costly. The conclusion that this market should be the company's initial focus is substantiated by the fact that it has all the relevant characteristics of a market we found to be desirable. These characteristics are discussed below:

- Large existing, robust, high-growth market.
- Converging market forces sustaining industry growth.
- Clear, immediate need for benefits provided by technology.
- Technology delivered would be strongly positioned to participate in emerging trends.

In the medium and long term (three to four years from now), AgaMatrix aims to address needs in the emerging electrochemical immunoassay and implantable biosensor markets.

The Home Blood Glucose Monitoring is the largest, immediately addressable market, over \$4.1 billion in size today and growing 13% CAGR. Based on preliminary discussions with several

potential customers, AgaMatrix believes that a significant portion of this market can eventually be captured. We expect device makers to pass on the modest costs of AgaMatrix's technology through the high margins currently enjoyed by the consumable reagents (test strips) they sell. While AgaMatrix technology does not directly improve the test strips themselves, potential customers will incorporate the cost of such technology as part of the total solution cost; development costs of their test devices are already paid for in this way. Diabetics generally are not price sensitive to test strips since insurance usually covers the costs of the strips.

4.1 Market Segmentation

Home Blood Glucose Monitors

AgaMatrix will initially target home blood glucose monitoring device makers. One primary dimension along which these device makers compete is the reduction of pain and discomfort from testing that involves pricking fingers to extract blood. By improving device sensitivity, **AgaMatrix allows blood glucose device OEMs to reduce the required blood sample size enabling the use of less painful blood extraction mechanisms**, a major competitive advantage for such devices according to customer surveys. In one foreseeable application, diabetics would be able to painlessly extract a small amount of blood using automated AgaMatrix-enabled microneedles to test blood glucose levels.

Hospital Point-of-Care Blood Analyzers

AgaMatrix will also initially target the hospital blood analyzer market (\$300 million in 2001, 25% CAGR) by providing increased accuracy and increased types of tests for these devices. Based on a bottom-up analysis of end user (physicians) and device maker surveys, we believe market penetration for these players has been **hindered by the relatively low accuracy** (when compared to tests done by centralized labs) **and by the limited number of available tests**. Physicians are thus forced to wait several hours for results from blood sent to centralized labs, and only use portable blood analyzers in acute emergency situations.

AgaMatrix solves the problem of low accuracy for portable hospital blood analyzers,

allowing physicians to use portable analyzers in more situations, thus increasing quality of care, increasing patient turnover, and reducing hospital costs. Our technology could also help boost the yield on current cartridge products, eliminate future cartridge production steps, and provide a broader menu of tests on portable devices, delivering a suite of offerings comparable to traditional large and expensive lab equipment analyzers.

Minimally Invasive and Implantable Glucose Monitors

Alternatives to finger-pricking devices currently include devices that continuously monitor blood glucose levels. The problem with these and similar "minimally invasive" devices is that, according to a report by Merrill Lynch, they are not sufficiently accurate (>30% error, outside bounds of FDA-approved primary glucose monitoring devices) to be used for any purpose other than a supplementary aid to traditional finger-pricking methods. Also, they cannot be used continuously for an extended period of time. AgaMatrix's value proposition of dramatically improving accuracy and usage duration is clear.

With almost all of the major players trying to develop an "artificial pancreas," commercializing implantable glucose biosensors that can regulate an implanted insulin pump has been the Holy Grail for the industry. The artificial pancreas allows diabetics to lead a near normal lifestyle without the constant pain and inconvenience of finger pricking and insulin injections. One of the key challenges in the development of implantable sensors is eliminating the use of toxic chemicals currently needed to correct for cross-sensitivity effects that reduce the accuracy of the sensor. **AgaMatrix's technology minimizes these effects without having to use toxic chemicals**, thus eliminating a key barrier to the development of complete implantable glucose monitoring and insulin pump systems. Such breakthroughs could lead to adoption of implantable devices on the order of today's cardiac pacemaker. These large players have

expressed initial interest in using AgaMatrix's technology in these next-generation implantable devices.

Electrochemical Immunoassays

Immunoassays are tests that measure biological and chemical species associated with the body's immune system. Currently, the majority of immunoassays are performed via colorchanging tests strips (for simple non-critical applications like home pregnancy tests), or via time-consuming laboratory procedures for more critical tests (like cardiac markers). In hospitals and clinical labs alone, millions of these immunoassays are performed daily. These laboratory assays are based on complicated optical and radioactive detection instrumentation. Leaders in the industry are developing electrochemical immunoassays because electrochemical technologies are generally recognized to be more cost effective, robust, and possibly faster than optical methods given the fact that no complicated sample pre-treatment processes are needed. One of the main challenges to commercializing this new technology is achieving the low detection levels needed for such measurements. **AgaMatrix's technology can be eventually embedded in these devices to overcome the sensitivity issues that currently hinder their commercialization.**

Market Analysis							
Potential Customers	Growth	2002	2003	2004	2005	2006	CAGR
Home Blood Glucose Monitors	13%	4,700	5,311	6,001	6,781	7,663	13.00%
Hospital Blood Analyzers	25%	375	469	586	733	916	25.02%
Implantable & Non-Invasive	25%	50	60	80	100	125	25.74%
Glucose Monitors							
Immunoassays	5%	500	525	551	579	608	5.01%
Total	13.43%	5,625	6,365	7,218	8,193	9,312	13.43%

Table: Market Analysis

Market Analysis (Pie)



- Home Blood Glucose Monitors
- Hospital Blood Analyzers
- Implantable & Non-Invasive Glucose Monitors
- Immunoassays

4.2 Industry Analysis

The medical diagnostics industry is prone to disruptions because of technological innovations. We have found the following current industry needs are immediately addressable by AgaMatrix's technology based on a survey of potential customers in the blood glucose and Hospital point-of-care (POC) market:

Existing Market Need	End-User Motivation for Market Need	Bottom Line Value of Solution to Device Makers
Use of blood from less painful areas. Need to use smaller blood samples to enable new blood acquisition methods.	Lack of treatment compliance because diabetic patients are unwilling to use the devices too physically painful to use regularly.	Sample size is a critical dimension device makers compete on. Solution provides a competitive advantage.
Need for higher accuracy for hospital POC blood chemistry analyzers.	Desire to use point-of- care devices instead of central labs for emergency situations in order to instantly get life-critical diagnostic data.	Device makers increase penetration in existing hospital markets.
Need for larger test menus offered by POC devices.	Health professionals will often not use point- of-care devices unless all the required tests are available in one device/cartridge solution.	A competitive advantage increasing market share since this is an end-user valued differentiating feature.

Near future market needs prompted by emerging trends

We have also identified a number of needs for which AgaMatrix is aligned to be a major technology provider. For the sake of conservatism and maintaining a focused company positioning in the healthcare arena, we are not pursuing available applications in environmental monitoring, industrial processing, and military biological/chemical warfare agent detection. Instead, we consider our primary expansion markets to be other segments in the healthcare market including the immunoassay and implantable/minimally invasive biosensor markets, with some initial penetration into the latter in Y2 and Y3.

Emerging Trend	Motivation for Trend	Addressable Roadblocks
Development of minimally-invasive and ultimately of implantable glucose biosensors.	Addresses compliance issues in patients having difficulty using current devices. Enables the "artificial pancreas" (measures glucose, injects insulin).	Toxic chemicals required to overcome interference issues prevent implantation. Sensor electrodes become fouled and need regular replacement.

Conversion of existing immunoassays to electrochemical biosensor-based immunoassays.	Eliminates time/equipment intensive sample pre- treatment steps. Enables the typical benefits of having tests on devices, e.g., POC data analytical applications.	Biological elements are in trace amounts too small to be detected. Devices are not sensitive enough.
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4.2.1 Competition

Based on a prior art search and our cross-disciplinary technology expertise, we believe we are the only solution provider of our kind to medical device manufacturers. However, AgaMatrix indirectly competes against other biosensor-enhancing technologies. Rival technologies include advances in physical designs such as improvements in chemical reagents used in these devices and the integration of permselective membranes that are intended to materially filter out interfering chemicals from contacting the sensor. We have identified the research efforts of the following companies as potential competition due to their efforts to solve the same problems, albeit through very different approaches.

5.0 Strategy and Implementation Summary

AgaMatrix's strategy will be built upon sustainable advantages from superior software technology, in-house expertise, monopolization of a scientific team, and development lead time over competitors. In addition, the company will deploy a strong intellectual property strategy of defensive and offensive patents to create an IP minefield to make litigation for competitors as costly as possible. Coupled with an aggressive marketing and sales strategy, AgaMatrix is positioned to be the leading provider of technology that enables biosensor devices used in medical and other life science applications.

5.1 Competitive Edge

Advantage #1: Superior and Complementary Software Paradigm

Potential indirect competition could lie within R&D departments of medical device OEMs who are striving to create both incrementally higher-performing biosensors for existing products. The R&D teams are also striving to make revolutionary advances which enable implantable biosensors such as blood glucose monitors. However, based on secondary market research and on first-hand conversations with potential customers/partners, the observed historical trend in this industry has been to approach chemical problems with chemical experts. We believe that our multi-disciplinary software approach fills a missing piece in the development of these devices.

From a technological standpoint, our software-based solutions achieve the same goals of interference suppression as rival chemical solutions; however, because we obviate the need for these chemicals, most of which are toxic, products deployed with AgaMatrix technology will be suited for in vivo applications, such as some minimally invasive and implantable glucose monitors. Furthermore, our technology can simultaneously monitor multiple chemicals, both the target analyte and any interfering chemicals, engendering low-cost multi-analyte sensors which are not readily viable with current chemical-based sensor enhancements.

From a marketing standpoint, our products have the advantage of being software-based, engendering many of the potential benefits that other software-based products traditionally enjoy. One of the principle advantages that end users would have is the ability to upgrade the software as new, better algorithms are developed, a benefit that cannot be as easily realized with other physical and chemical technological advances. From a cost-saving standpoint, many of the permselective membranes that are currently designed to be used in biosensor devices are too expensive to be used in all applications. As such, our software solutions would provide a cost benefit advantage to our customers.

Regardless of other traditional technology advances in sensor design, our DSP technologies will ultimately prove to be complementary. Our noise-filtering algorithms will increase the signal-tonoise ratio enabling greater sensitivity and lowering detection limits. In many applications, membrane filters are not fully effective; as such, our interference suppression algorithms can compensate for the limitations of such membranes. Additionally, rival empirical improvements cannot address other limitations of these devices, such as sensor deterioration, where our technology may be applied to auto-correct for such sources of error.

Advantage #2: In-House Expertise

As is the case with chemical and life science research, one of the most resource-intensive aspects of the development time lies in optimizing empirical protocols and avoiding unforeseen pitfalls; most of the knowledge comes from "hands-on" experience, not only theoretical background. Furthermore, expertise in multi-disciplinary areas as ours requires specialized knowledge. AgaMatrix's scientific team has been involved in biosensor research for an aggregate of over 40 years. The foundational research for our current technology was initiated seven years ago, and our scientists have developed and optimized many of the techniques that are vital to the continuing development and validation of AgaMatrix's products. To date, we have developed the groundbreaking technology approach, the experimental protocols, the validation mechanisms, and the core algorithms. Our extensive in-house expertise in working on bridging biosensor systems and DSP technologies represents a significant barrier to any potential competitor.

Advantage #3: Monopolization of Scientific Team

The technology that AgaMatrix is built upon has been inspired by research performed throughout the past decade at the University of Cambridge. The original scientific team that achieved these breakthroughs boasts inimitable credentials and has remained intact to form the current AgaMatrix R&D team. In the ensuing years, AgaMatrix has developed new technologies and is moving towards its commercialization. We believe that our virtual monopoly on the intellectual resources that have been responsible for the technological advances that AgaMatrix owns represents a significant competitive advantage over potential competitors. As is the case with any empirical endeavor, much of the in-house expertise comes in the form of a close working knowledge of the practical aspects of technology development. With the current R&D team already experienced in the relevant technologies, and having worked together in the past, much of this knowledge has already been acquired.

Advantage #4: Development Lead Time Over Potential Competition

In sharp contrast to the typical chemistry-based approach, AgaMatrix's technology is based upon a multi-disciplinary core competency. Our competitive capabilities are derived from a unique confluence of electrical engineering and life science disciplines, a roadblock for potential competitors entrenched in traditional "wet chemistry" research paradigms.

5.2 Marketing Strategy

Presenting compelling value through superior technology

Because of AgaMatrix's revolutionary, proprietary technology, we are positioned to be the market leader in biosensor enhancing solutions. AgaMatrix offers a novel approach that clearly provides significant value to our customer and ultimately the end user. The AgaMatrix solution delivers value in two ways: by improving the performance of their product against competing products and by increasing customers' market share and revenue. Communicating this value to the device manufacturers, as well as branding our technology to defend market share, is the fundamental philosophy behind our marketing strategy.

Becoming a competitive standard

The core AgaMatrix technology is a unique approach to improving biosensors systems in a way that substantially increases performance and adds value to the end user. In a competitive marketplace, we will present our technology to medical device makers as an industry standard that they must adopt to be able to compete. Examples of this kind of standard-setting technology include the adoption of Windows platforms on PCs and auto-focus and red-eye reduction capabilities on cameras. Specific selling points include elimination of cross-interference, improvement in accuracy, improvement in signal to noise ratio, improvement in device robustness, reduction in sample requirements, and increase in market acceptance of product. The value proposition will differ depending on the needs of each customer.

Marketing to end users by marketing the end product

AgaMatrix will market to end users through partnership with the device makers; to add value, our technology must increase their bottom line profit. AgaMatrix can do this if end users appreciate the advantages AgaMatrix enhancements bring and if they require our products for a healthcare "standard of care." The desire for end users, such as doctors and patients, to use the best and most effective technology for diagnosis and treatment of health problems will drive demand for AgaMatrix-enabled devices. Therefore, AgaMatrix will develop a marketing plan with our partners to increase the awareness of the clinical advantages of our devices. The AgaMatrix-enabled label will become a moral imperative to clinicians in the same way that advanced digital imaging technology is used by radiologists and cardiovascular specialists.

In summary, AgaMatrix will market both to the device makers we sell to and end customers, who will drive demand. Because device makers are concerned about increasing their bottom line through value-add to their products as well as through production cost reductions, AgaMatrix will sell to them on the basis of value rather than on any other consumer-based premise. End users, such as healthcare professionals and customers, demand standard of care. Therefore, AgaMatrix will co-market its brand as a necessary technology for healthcare diagnostics.

5.3 Intellectual Property Strategy

With a fully developed IP strategy consisting of core utility patents (currently filed as provisional applications) and defensive utility patents to be filed imminently, and based on our technological leadership, we believe that it would be far more beneficial for potential customers to purchase our technology than to develop it in-house.

5.4 Sales Strategy

Phase 1: Sales to medical device manufacturer partners

In the first stage of bringing AgaMatrix technology to market, the company will approach and partner with medical device manufacturers. Such partnerships have the added advantages of product development that is supported by the partner's engineering, finance, marketing, and management.

Phase 2: Becoming the "competitive standard"

With a base of customers who can vouch for the product value, AgaMatrix aims to become the competitive standard that all players must adopt. Specific marketing tactics in this stage include: increasing market awareness through trade shows (e.g., Medical Device Expo, SensorExpo) and technical conferences, advertising in trade journals and publications (e.g., *Sensor Magazine, Medical Device and Diagnostics Magazine*), and retaining "Thought Leaders" from industry and academia who will corroborate our claims.

Phase 3: Branding for mind share and market domination

AgaMatrix will brand its proprietary DSP technology to associate enhanced solutions with our identity. A consistent, strong, and clearly defined brand will add yet another barrier to entry and market penetration. Increased awareness of the advantages we deliver will give rise to increased demand for the end product.

6.0 Web Plan Summary

AgaMatrix's website will be a dynamic marketing tool for the company that serves the needs of business development, sales, and recruiting. The company site will provide information about AgaMatrix's products and services for target customers and potential business partners, such as marketing collateral, technical white papers, and new product updates. As the company grows, its recruiting needs can be addressed by posting career opportunities and FAQs about the company. AgaMatrix.com will also communicate company news to create and maintain positive public relations with the community and investors. The goal will be to implement a functional and professionally designed website that can be adapted to meet the company's growing needs.

6.1 Development Requirements

Creation of future versions of the AgaMatrix website will continue to be outsourced to Nathan Bailey, a professional graphics designer with over 15 years of experience. The contractor will work with the marketing department to conceptualize the company's logo and overall design. It will be maintained in-house and major site redesigning will be made through a contractor.

7.0 Management Summary

The following are the current members of the AgaMatrix Team. Once a permanent CEO is on board, Sonny will transfer to a Director of Product Management role.

Sonny Vu, Chief Executive Officer and Founder

Sonny brings management and entrepreneurial experience from having worked in several of Microsoft's product groups and having launched and built FireSpout, an enterprise software company. At Microsoft, he worked in a number of product development groups, including the natural language group responsible for shipping linguistic technologies to over 16 applications in 22 languages. While at FireSpout, Sonny created the original technology vision, recruited the technical teams, developed and managed the technology development and various operational processes, and developed the intellectual property strategy. Originally a mathematician by training, Sonny was a Ph.D. candidate at MIT prior to working in the software industry.

Dr. Sridhar Iyengar, Chief Technology Officer and Founder

With 10 years of research and engineering experience in DSP and mathematical modeling of chemical systems, Sridhar drives and directs the implementation of AgaMatrix's technology vision. He is the leading expert in the core DSP/electrochemistry interdisciplinary approach used by AgaMatrix. Combining his background in electrical engineering and biological sciences, Sridhar conceived and pioneered the concept of using a DSP approach to enhance biosensor performance. His work in the years following his breakthrough Ph.D. research is the cornerstone for AgaMatrix's intellectual property with two key patents filed under his name and another three defensive patents to be filed during the summer of 2002. Sridhar obtained his Ph.D. from the University of Cambridge as a Marshall Scholar.

Craig Bolon, Vice President of Engineering

With more than 35 years of management and technical experience in software and hardware engineering, Craig is responsible for executing AgaMatrix's product development initiatives. He brings his leadership experiences from being a hands-on development engineer, team leader, general manager, engineering director, and entrepreneur. Craig has a proven track record of delivering on-time, on-budget projects while working on commercial product development in software and instrumentation for organizations such as Schlumberger, Polaroid, Betagen, Exxon, and MIT. His commercial product development work has spanned the fields of molecular biology, chemical analysis, electronic imaging, speech recognition, and mechanical design software. Craig has invented key technologies and holds a number of software and hardware patents. He holds a degree in particle physics from MIT.

Dr. Paul J. Kelly, Advisor

Paul is the founder and former CEO of Gemini Genomics plc, until its merger in 2001. A physician who specialized in endocrinology, he has more than 25 years of experience in medicine, and research in clinical and commercial settings. He has published extensively in over 90 publications, has an issued patent, and has held faculty appointments at the University of New South Wales and St. Vincent's Hospital in Sydney, Australia. After launching Gemini Genomics in Cambridge, England, Paul went on to list the company on NASDAQ, in the most successful IPO of 2000 in the UK. He has served on national governmental advisory bodies, as well as on the boards of public and private companies, and non-profit institutions. Paul graduated in Medicine from the University of New South Wales, Sydney, and received his Doctor of Medicine degree for his thesis in the genetics of osteoporosis also from the University of New South Wales. He is a Fellow of the Australasian College of Physicians.

7.1 Personnel Plan

The personnel table assumes steady growth in employees over the next year. We expect head count to reach 14 employees by end of year one. We are in the process of implementing a strong benefits policy (with fully-paid medical, dental, and life insurance, plus a profit sharing and 401K plan). Employees generally earn competitive salaries and receive generous equity packages. Table: Personnel

Personnel Plan

	2003	2004	2005
Combined Payroll	\$780,750	\$4,181,056	\$6,013,186
Other	\$0	\$0	\$0
Total People	0	0	0
Total Payroll	\$780,750	\$4,181,056	\$6,013,186

8.0 Financial Plan

The following subtopics highlight the financial plan for AgaMatrix.

8.1 Important Assumptions

The financial plan depends on important assumptions, most of which are shown in the following table. The key underlying assumptions are:

- We assume a slow-growth economy, without major recession.
- We assume of course that there are no unforeseen changes in technology to make our products immediately obsolete.
- We assume access to equity capital and financing sufficient to maintain our financial plan as shown in the tables.

Financial projections are predicated upon targeting the life sciences vertical exclusively. Within the life sciences market, blood glucose will drive the majority of revenue. However, the pointof-care testing market will contribute modest revenue in the near term, accompanied by a substantial contribution from the implantable market in the medium and long term.

Table: General Assumptions

General Assumptions			
	2003	2004	2005
Plan Month	1	2	3
Current Interest Rate	8.00%	8.00%	8.00%
Long-term Interest Rate	10.00%	10.00%	10.00%
Tax Rate	30.00%	30.00%	30.00%
Other	0.00%	0.00%	0.00%
Calculated Totals			
Payroll Expense	\$780,750	\$4,181,056	\$6,013,186
New Accounts Payable	\$5,742,713	\$7,399,576	\$21,486,915

8.2 Break-even Analysis

The break-even analysis demonstrates that AgaMatrix will have a sales level running comfortably above break-even starting in year two. Depending on which pricing model is used—either royalties, licensing, or both—average per-unit revenue could vary significantly, but \$7.00 is a fair estimate given our revenue projections.

The business will have very few fixed costs—most laboratory equipment can be leased, as will the real estate for our offices. All costs are expected to be variable for modeling purposes, giving the company flexibility to adapt as needs and environmental conditions may change. Because AgaMatrix technology is software-based and is optimized for minimal hardware requirements, it can be easily distributed and integrated into biosensor devices with advantages of economies of scale. As volume increases, average per-unit variable costs will significantly decrease.

Table: Break-even Analysis

Break-even Analysis:	
Monthly Units Break-even	11,533
Monthly Revenue Break-even	\$80,733
Assumptions:	
Average Per-Unit Revenue	\$7.00
Average Per-Unit Variable Cost	\$4.00
Estimated Monthly Fixed Cost	\$34,600



Break-even Analysis

Break-even point = where line intersects with 0

8.3 Projected Profit and Loss

Gross and operating margins

Gross margins will be approximately 85% on the core product offering, which will be delivered in the form of software. Such margins are typical in the software industry; we have not modeled in support revenue streams for our products, assuming this will be handled entirely by our OEM customers. Operating margins will normalize to over 30% of revenue. In year one, operating margins will exceed 30% as we grow the business from a small base by conserving cash. Beginning in year two (post-institutional funding), as we ramp up the business more aggressively, operating margins will fall as we hire a critical mass of personnel for marketing, sales, and research and development. By the end of the forecast horizon, operating margins will once again exceed 30%.

Profit potential and durability

AgaMatrix is expected to be net income positive beginning in its second full year of operations. Profitability is expected to grow rapidly following year two, once the business is able to leverage the investment from the year two ramp up. AgaMatrix has the potential to be an enduring standalone business, supported by a diversified revenue stream within the life sciences vertical (blood glucose, point-of-care testing and minimally invasive/implantable devices), with the opportunity to expand into other sub-segments in the healthcare sector and new verticals for long-term growth.

Table: Profit and Loss

Pro Forma Profit and Loss			
	2003	2004	2005
Sales	\$256,000	\$9,954,000	\$44,816,000
Direct Costs of Goods	\$37,500	\$1,500,000	\$6,270,000
Other Production Expenses	\$0	\$0	\$0
Cost of Goods Sold	 \$37,500	\$1,500,000	\$6,270,000
Gross Margin	\$218,500	\$8,454,000	\$38,546,000
Gross Margin %	85.35%	84.93%	86.01%
Expenses:			
Payroll	\$780,750	\$4,181,056	\$6,013,186
Sales and Marketing and Other Expenses	\$4,915,400	\$245,000	\$450,000
Depreciation	\$0	\$0	\$0
Leased Equipment	\$0	\$0	\$0
Utilities	\$3,400	\$6,300	\$8,000
Insurance	\$44,000	\$65,000	\$80,000
Rent	\$114,700	\$120,000	\$120,000
Payroll Taxes	\$117,113	\$627,158	\$901,978
Other	\$0	\$0	\$0
Total Operating Expenses	 \$5,975,363	\$5,244,514	\$7,573,164
Profit Before Interest and Taxes	(\$5,756,863)	\$3,209,486	\$30,972,836
Interest Expense	\$1,500	\$1,500	\$1,500
Taxes Incurred	\$0	\$962,396	\$9,291,401
Net Profit	(\$5,758,363)	\$2,245,590	\$21,679,935
Net Profit/Sales	-2249.36%	22.56%	48.38%
Include Negative Taxes	FALSE	TRUE	TRUE



Profit Monthly



Profit Yearly



Gross Margin Yearly

8.4 Projected Cash Flow

The financial outlook is positive as the company rolls out and meets its milestones. After financing, cash flow will be negative for year one and two. By year three, AgaMatrix expects to be cash flow positive.

Table: Cash Flow

	2004 2005	C
Cash Received		
Cash from Operations:		
Cash Sales \$256,00	00 \$9,954,000 \$44,816,000	0
Cash from Receivables \$	60 \$0 \$0	0
Subtotal Cash from Operations \$256,00	00 \$9,954,000 \$44,816,000	0
Additional Cash Received		
Non Operating (Other) Income \$	60 \$0 \$0	0
Sales Tax, VAT, HST/GST Received \$	60 \$0 \$0	0
New Current Borrowing \$	60 \$0 \$0	0
New Other Liabilities (interest-free) \$	60 \$0 \$0	0
New Long-term Liabilities \$	60 \$0 \$0	0
Sales of Other Current Assets \$	60 \$0 \$0	0
Sales of Long-term Assets \$	60 \$0 \$0	0
New Investment Received \$4,075,00	00 \$0 \$0	0
Subtotal Cash Received \$4,331,00	00 \$9,954,000 \$44,816,000	0
Expenditures 200	03 2004 2005	5
Expenditures from Operations:		
Cash Spending \$271,65	50 \$308,834 \$1,649,149	9
Payment of Accounts Payable \$5,549,99	6 \$7,372,512 \$20,511,388	8
Subtotal Spent on Operations \$5,821,64	l6 \$7,681,346 \$22,160,537	7
Additional Cash Spent		
Non Operating (Other) Expense \$	60 \$0 \$0	0
Sales Tax, VAT, HST/GST Paid Out \$	60 \$0 \$0	0
Principal Repayment of Current Borrowing \$	60 \$0 \$0	0
Other Liabilities Principal Repayment \$	50 \$0 \$0	0
Long-term Liabilities Principal Repayment \$	50 \$0 \$0	0
Purchase Other Current Assets \$	60 \$0 \$0	0
Purchase Long-term Assets \$	60 \$0 \$0	0
Dividends \$		0
Subtotal Cash Spent \$5,821,64	46 \$7,681,346 \$22,160,537	1
Net Cash Flow (\$1,490,646	6) \$2,272,654 \$22,655,463	3
Cash Balance \$24,45	54 \$2,297,108 \$24,952,570	0





8.5 Projected Balance Sheet

Our projected balance sheet shows an increase in net worth to more than \$21 million in 2005. The monthly projections for the first year are in the appendices. Net worth is negative for the first two years because the company does not expect to secure its first paying customer until end of year one.

Table: Balance Sheet

Pro Forma Balance Sheet

Assets			
Current Assets	2003	2004	2005
Cash	\$24,454	\$2,297,108	\$24,952,570
Other Current Assets	\$0	\$0	\$0
Total Current Assets	\$24,454	\$2,297,108	\$24,952,570
Long-term Assets			
Long-term Assets	\$0	\$0	\$0
Accumulated Depreciation	\$0	\$0	\$0
Total Long-term Assets	\$0	\$0	\$0
Total Assets	\$24,454	\$2,297,108	\$24,952,570
Liabilities and Capital			
	2003	2004	2005
Accounts Payable	\$197,716	\$224,780	\$1,200,308
Current Borrowing	\$0	\$0	\$0
Other Current Liabilities	\$0	\$0	\$0
Subtotal Current Liabilities	\$197,716	\$224,780	\$1,200,308
l ong-term Liabilities	\$15,000	\$15,000	\$15,000
Total Liabilities	\$212 716	\$230 780	\$1 215 308
	ψ212,110	ψ233,700	ψ1,215,500
Paid-in Capital	\$5,575,000	\$5,575,000	\$5,575,000
Retained Earnings	(\$4,900)	(\$5,763,263)	(\$3,517,673)
Earnings	(\$5,758,363)	\$2,245,590	\$21,679,935
Total Capital	(\$188,263)	\$2,057,327	\$23,737,263
Total Liabilities and Capital	\$24,454	\$2,297,108	\$24,952,570
Net Worth	(\$188,263)	\$2,057,327	\$23,737,263

Appendix												
Appendix Table: Sales Forecast												
Sales Forecast Sales Test Strip Royalties (000) Other Total Sales	May \$0 \$0 \$0	Jun \$0 \$0 \$0	Jul \$0 \$0 \$0	Aug \$0 \$0 \$0	Sep \$0 \$0 \$0	Oct \$0 \$0 \$0	Nov \$0 \$0 \$0	Dec \$0 \$0 \$0	Jan \$0 \$0 \$0	Feb \$0 \$0 \$0	Mar \$0 \$0 \$0	Apr \$256,000 \$0 \$256,000
Direct Cost of Sales Test Strip Royalties (000) Other Subtotal Direct Cost of Sales	May \$5,000 \$0 \$5,000	Jun \$1,500 \$0 \$1,500	Jul \$1,500 \$0 \$1,500	Aug \$1,500 \$0 \$1,500	Sep \$1,500 \$0 \$1,500	Oct \$9,500 \$0 \$9,500	Nov \$1,500 \$0 \$1,500	Dec \$1,500 \$0 \$1,500	Jan \$1,500 \$0 \$1,500	Feb \$9,500 \$0 \$9,500	Mar \$1,500 \$0 \$1,500	Apr \$1,500 \$0 \$1,500

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Appendix Table: Personnel

Personnel Plan												
	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr
Combined Payroll	\$36,583	\$43,250	\$47,000	\$47,000	\$54,500	\$57,417	\$76,250	\$76,250	\$76,250	\$88,750	\$88,750	\$88,750
Other	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total People	0	0	0	0	0	0	0	0	0	0	0	0
Total Payroll	\$36,583	\$43,250	\$47,000	\$47,000	\$54,500	\$57,417	\$76,250	\$76,250	\$76,250	\$88,750	\$88,750	\$88,750

Appendix Table: General Assumptions

General Assumptions												
	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr
Plan Month	1	2	3	4	5	6	7	8	9	10	11	12
Current Interest Rate	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%
Long-term Interest Rate	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
Tax Rate	30.00%	30.00%	30.00%	30.00%	30.00%	30.00%	30.00%	30.00%	30.00%	30.00%	30.00%	30.00%
Other	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Calculated Totals												
Payroll Expense	\$36,583	\$43,250	\$47,000	\$47,000	\$54,500	\$57,417	\$76,250	\$76,250	\$76,250	\$88,750	\$88,750	\$88,750
New Accounts Payable	\$443,157	\$447,162	\$451,861	\$451,861	\$460,486	\$480,671	\$487,479	\$490,440	\$490,440	\$525,965	\$506,597	\$506,597

Appendix

Appendix Table: Profit and Loss

Pro Forma Profit and Loss						0	0.1		5				
Salas		May ¢0	Jun ¢n	Jul	Aug	Sep	UCT ©0	NOV ¢0	Dec	Jan ¢0	Feb ¢0	Mar ¢0	Apr \$256.000
Direct Costs of Goods		\$5 000	\$1 500	\$1 500	φ0 \$1.500	\$1 500	\$9 500	φ0 \$1.500	φ0 \$1.500	φ0 \$1.500	\$9 500	\$1 500	\$250,000
Other Production Expenses		\$0,000 \$0	\$0	\$0	\$0	\$0	\$0,000 \$0	\$0	\$0	\$0	\$0,000	\$0	\$0
Cost of Goods Sold		\$5.000	\$1.500	\$1.500	\$1,500	\$1.500	\$9.500	\$1,500	\$1,500	\$1.500	\$9.500	\$1.500	\$1,500
Gross Margin		(\$5.000)	(\$1,500)	(\$1,500)	(\$1,500)	(\$1,500)	(\$9.500)	(\$1,500)	(\$1,500)	(\$1,500)	(\$9,500)	(\$1,500)	\$254,500
Gross Margin %		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	99.41%
Expenses:													
Payroll		\$36,583	\$43,250	\$47,000	\$47,000	\$54,500	\$57,417	\$76,250	\$76,250	\$76,250	\$88,750	\$88,750	\$88,750
Sales and Marketing and Other Expenses		\$407,150	\$406,150	\$406,150	\$406,150	\$406,150	\$415,150	\$406,650	\$408,650	\$408,650	\$424,150	\$410,200	\$410,200
Depreciation		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Leased Equipment		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Utilities		\$220	\$240	\$260	\$260	\$260	\$260	\$260	\$320	\$320	\$320	\$340	\$340
Insurance		\$2,400	\$2,800	\$3,200	\$3,200	\$3,200	\$3,200	\$3,200	\$4,400	\$4,400	\$4,400	\$4,800	\$4,800
Rent		\$8,535	\$8,545	\$8,555	\$8,555	\$8,555	\$10,255	\$10,255	\$10,285	\$10,285	\$10,285	\$10,295	\$10,295
Payroll Taxes	15%	\$5,487	\$6,488	\$7,050	\$7,050	\$8,175	\$8,613	\$11,438	\$11,438	\$11,438	\$13,313	\$13,313	\$13,313
Other		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Operating Expenses		\$460,375	\$467,473	\$472,215	\$472,215	\$480,840	\$494,895	\$508,053	\$511,343	\$511,343	\$541,218	\$527,698	\$527,698
Profit Before Interest and Taxes		(\$465,375)	(\$468,973)	(\$473,715)	(\$473,715)	(\$482,340)	(\$504,395)	(\$509,553)	(\$512,843)	(\$512,843)	(\$550,718)	(\$529,198)	(\$273,198)
Interest Expense		\$125	\$125	\$125	\$125	\$125	\$125	\$125	\$125	\$125	\$125	\$125	\$125
Taxes Incurred		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Net Profit		(\$465,500)	(\$469,098)	(\$473,840)	(\$473,840)	(\$482,465)	(\$504,520)	(\$509,678)	(\$512,968)	(\$512,968)	(\$550,843)	(\$529,323)	(\$273,323)
Net Profit/Sales		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-106.77%
Include Negative Taxes													

Appendix

Appendix Table: Cash Flow

Pro Forma Cash Flow		May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr
Cash Received Cash from Operations: Cash Sales Cash from Receivables Subtotal Cash from Operations		\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$256,000 \$0 \$256,000
Additional Cash Received Non Operating (Other) Income Sales Tax, VAT, HST/GST Received New Current Borrowing New Other Liabilities (interest-free) New Long-term Liabilities Sales of Other Current Assets Sales of Long-term Assets New Investment Received Subtotal Cash Received	0.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$4,000,000 \$4,000,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$75,000 \$75,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$256,000
Expenditures Expenditures from Operations: Cash Spending Payment of Accounts Payable		May \$22,343 \$253,773	Jun \$21,936 \$450,702	Jul \$21,979 \$451,487	Aug \$21,979 \$451,861	Sep \$21,979 \$460,486	Oct \$23,849 \$464,402	Nov \$22,199 \$501,834	Dec \$22,528 \$487,577	Jan \$22,528 \$490,440	Feb \$24,878 \$505,520	Mar \$22,726 \$525,319	Apr \$22,726 \$506,597
Subtotal Spent on Operations		\$276,116	\$472,638	\$473,466	\$473,840	\$482,465	\$488,251	\$524,033	\$510,105	\$512,968	\$530,398	\$548,045	\$529,323
Additional Cash Spent Non Operating (Other) Expense Sales Tax, VAT, HST/GST Paid Out Principal Repayment of Current Borrowing Other Liabilities Principal Repayment Long-term Liabilities Principal Repayment Purchase Other Current Assets Purchase Long-term Assets Dividends Subtotal Cash Spent		\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$276,116	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$472,638	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$473,466	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$473,840	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$482,465	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$488,251	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$524,033	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$510,105	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$512,968	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$530,398	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$548,045	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$529,323
Net Cash Flow Cash Balance		\$3,723,884 \$5,238,984	(\$472,638) \$4,766,345	(\$473,466) \$4,292,879	(\$473,840) \$3,819,039	(\$482,465) \$3,336,574	(\$488,251) \$2,848,324	(\$524,033) \$2,324,291	(\$510,105) \$1,814,186	(\$512,968) \$1,301,219	(\$530,398) \$770,821	(\$473,045) \$297,776	(\$273,323) \$24,454

Appendix Table: Balance Sheet

Pro Forma Balance Sheet

Assets													
Current Assets	Starting Balances	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr
Cash	\$1,515,100	\$5,238,984	\$4,766,345	\$4,292,879	\$3,819,039	\$3,336,574	\$2,848,324	\$2,324,291	\$1,814,186	\$1,301,219	\$770,821	\$297,776	\$24,454
Other Current Assets	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Current Assets	\$1,515,100	\$5,238,984	\$4,766,345	\$4,292,879	\$3,819,039	\$3,336,574	\$2,848,324	\$2,324,291	\$1,814,186	\$1,301,219	\$770,821	\$297,776	\$24,454
Long-term Assets													
Long-term Assets	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Accumulated Depreciation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Long-term Assets	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Assets	\$1,515,100	\$5,238,984	\$4,766,345	\$4,292,879	\$3,819,039	\$3,336,574	\$2,848,324	\$2,324,291	\$1,814,186	\$1,301,219	\$770,821	\$297,776	\$24,454
Liabilities and Capital													
		May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr
Accounts Payable	\$5,000	\$194,384	\$190,843	\$191,217	\$191,217	\$191,217	\$207,486	\$193,131	\$195,994	\$195,994	\$216,439	\$197,716	\$197,716
Current Borrowing	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other Current Liabilities	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Current Liabilities	\$5,000	\$194,384	\$190,843	\$191,217	\$191,217	\$191,217	\$207,486	\$193,131	\$195,994	\$195,994	\$216,439	\$197,716	\$197,716
Long-term Liabilities	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
Total Liabilities	\$20,000	\$209,384	\$205,843	\$206,217	\$206,217	\$206,217	\$222,486	\$208,131	\$210,994	\$210,994	\$231,439	\$212,716	\$212,716
Paid-in Capital	\$1,500,000	\$5,500,000	\$5,500,000	\$5,500,000	\$5,500,000	\$5,500,000	\$5,500,000	\$5,500,000	\$5,500,000	\$5,500,000	\$5,500,000	\$5,575,000	\$5,575,000
Retained Earnings	(\$4,900)	(\$4,900)	(\$4,900)	(\$4,900)	(\$4,900)	(\$4,900)	(\$4,900)	(\$4,900)	(\$4,900)	(\$4,900)	(\$4,900)	(\$4,900)	(\$4,900)
Earnings	\$0	(\$465,500)	(\$934,598)	(\$1,408,438)	(\$1,882,278)	(\$2,364,743)	(\$2,869,263)	(\$3,378,940)	(\$3,891,908)	(\$4,404,875)	(\$4,955,718)	(\$5,485,040)	(\$5,758,363)
Total Capital	\$1,495,100	\$5,029,600	\$4,560,502	\$4,086,662	\$3,612,822	\$3,130,357	\$2,625,838	\$2,116,160	\$1,603,193	\$1,090,225	\$539,383	\$85,060	(\$188,263)
Total Liabilities and Capital	\$1,515,100	\$5,238,984	\$4,766,345	\$4,292,879	\$3,819,039	\$3,336,574	\$2,848,324	\$2,324,291	\$1,814,186	\$1,301,219	\$770,821	\$297,776	\$24,454
Net Worth	\$1,495,100	\$5,029,600	\$4,560,502	\$4,086,662	\$3,612,822	\$3,130,357	\$2,625,838	\$2,116,160	\$1,603,193	\$1,090,225	\$539,383	\$85,060	(\$188,263)