Investor "Tempus Flow IOT" Slide Deck

"If you can not measure it, you can not improve it."

LORD KELVIN .oO(Sir William Thomson)Oo.

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Draft/Craft Beer Market

"Pouring beer down a drain is nothing less than alcohol abuse"



- Global Beer Market to be \$688 Billion by 2020 (\$110B U.S. 2015)
- Draft Beer is over 20% of all beer sold!
- Industry statistics are ~ 20% waste/keg!
- Craft beer is a \$24B U.S. market and growing about 20% year over year through 2020



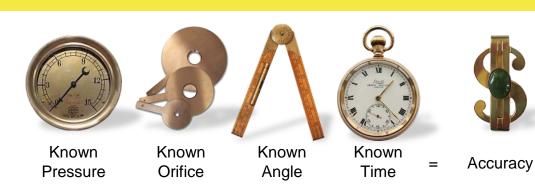
Problem/Opportunity:

- Typical bar (especially tap beer) is very inefficient, low tech and unmonitored
- Typical sell price of craft/draft beer can be \$8-10 for a 20 oz. beer or ~\$2.00 down the drain per sale
- Loss due to spillage, foam (keg change), inefficient inventory, waste, down time, improper CO2/N settings, clean glass and bartender abuse/over pour, tap pre-pour, or after hours drinking can cost a bar owner/manager thousands per month in lost revenue





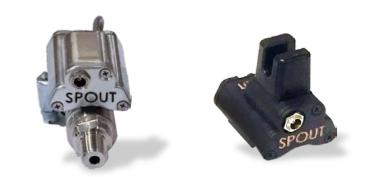
Technology Overview



- Miniature Bluetooth® Low Energy Sensor Tag based Timing
- X, Y, Z Accelerometer, Gyrometer and Magnetometer tracking beer tap handle to determine 3D Space, event and angle of tap handle
- Precision timing of Tap On, including percent angle on (Low Flow)
- This along with known orifice(flow), pressure control and foam detection accurately determine product distributed
- Fits any industry standard tap handle/faucet

SPOUT SPOUT SPOUT

SPOUT Tap Handle IOT Sensors



Pressure & Foam Detection IOT Sensors



Patent Pending

Tempus Flow

Timed Flow IOT Beer Distribution; Inventory and Measurement System



Improvement of:

- Product Quality
- Every Pour, Every Time

Reduction of:

- Over-Pouring
- Over-Foam
- Keg Change Down-Time
- Drain Waste
- Cash Skimming
- Free Drinks/After Hours



Patent Pending

System Overview



Software Overview





Inventory Status

Data Rich Reports

Brand Status

Intuitive GUI Flow

Touch/Gesture Friendly

Visual/Iconic Styling

Drill Down/ Hierarchal Detail

Predictive/Adaptive Analytics

Dropdown/Contextual Beer Database



Product Quality Status

Patent Pending

Spout

Real Time Hardened Secure







Tempus Flow Benefits

- Accuracy of Product Distributed (including low flow/partial pour)
- Cloud Service Model overall bar efficiency and inventory management
- Non-Invasive Measurement/Inventory System @ Tap Handle
 - Sensor does NOT touch product nor part of cleaning process
- Predictive Keg change/pour status and maintenance
 - Foam Detection (200 ft of line waste)
 - Valve/Keg Auto Switchover (Option)
- Improved Quality of product served
- Reduction of waste and abuse
 - Tamper Proof Algorithms
 - Measured Pour each time
- Secure Wireless Bluetooth® Low Energy
- Technology applies to other products
- Low Cost!



Generations 1 - 2 - 3 - 4







Craft Beer Disruption

- The move is on for more Craft Beer on Tap!
- Management of 30+ beers on tap is not the same as 4!
- Craft is not just Draft and Waste is important!

This is an untapped market!



THIS NORTH CAROLINA BEER BAR AND ITS 366 TAPS WILL SET A WORLD RECORD

BY MIKE POMRANZ | JUL 23 2015







Tagged: Beer Run North Carolina Bar





Sales Model -> Entry Points























Organic Sales &
Marketing: Large
Franchises/Stadiums/
Branded Craft Bars









Sales Model Value to Bar Owner/Manager



\$0 Initial Cost to Owner/Bar ½ Hour Up and Running 30 Day Free Trial



+/- \$40/Tap/Month (Depending upon Value Model of Establishment Immediate ROI)





High Value – Low Investment Cost to Bar Owner Better, Cheaper, Faster

Draft/Craft Beer Waste Calculations

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Global Beer Market

Segmentation and Forecast (2014 - 2020)

Allied Market Research @2015

Asia Pacific (2015-2020) Transition in lifestyle

Rising craft beer

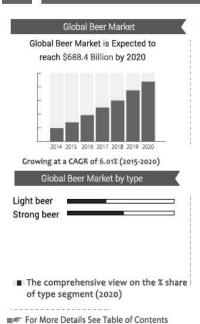
market

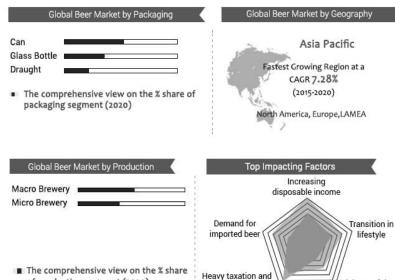
2014 2020

Your bartenders could over pour or waste 30 ml/1 Oz. per glass into 200 glasses. You would lose about 6 L / 200 Oz. of beer at the end of the day. They could also serve 12 glasses and not collect the sales revenues. You would still lose about the same amount of beer but a lot more money. It is mostly this daily "unknown and variable" number of uncollected beer glasses that can make a big difference on your bottom line.

Additional yearly beer sales revenues Vs number of recovered beer glass sold daily using a metering system







legal regulations

of production segment (2020)

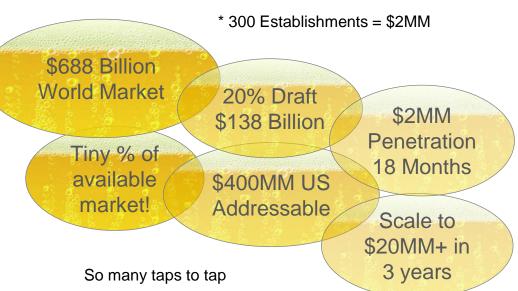
Rollout Plan

Rollout Revenue Projection

Statistics and facts on the bar & nightclub industry in the U.S.

Infrastructure & Employment	Values
Number of enterprises in the U.S.	65,116
Number of establishments in the U.S.	65,224
Total employment at U.S. bars, taverns and nightclubs	363k
Average number of employees per establishment in the U.S.	5.56

\$45/Month Per Tap Average * 12 Taps/Bar Average





Tempus Flow Milestones

Action Plan – Demo/Evaluation/Subscription Service

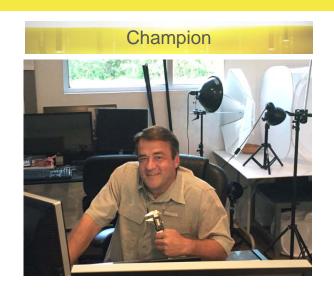
TTR -Time To Revenue - 6 Months

- Build Test Software Time/Event Done
- Develop IP White Paper/Patent Process Done
- Patent Application/Freedom to Operate Done
- Foam Detection Bluetooth® IOT units Done
- Build High & Low Pressure IOT devices Done
- Build Alpha set of filter/data handlers Done
- Build Alpha Demo & Visualization Done
- Develop SaaS Model/Pricing Done
- Mitigate Custom Technical Risks Done
- Mitigate Industry Technical Risks In Process
- Build Beta Release Software/Hardware System Funding
- Demonstration Plan/Roll-Out (Beta MVP) In Process
- Scale 1-X number of Beta to Subscription systems Funding
- Develop Gen 4 Systems Software & Hardware Funding+
- Marketing and Product Launch Funding+





Tempus Flow – Team SPOUT



We are a group of Professional Product Developers

See <u>TeamDesignGroup.Com</u>

We are a mix of Senior and Junior – Systems, Software, Electrical & Mechanical Engineers/Part Time Beer Drinkers

Industrial Design/Mechanical



Principal Electrical/Firmware





Software Visualization/Mobile



Tempus Flow – Future Diversity

Diversification - Social Media/Festivals/Supply Industry

• Social Media – Trending, Popular, Events, Buzz, Display Menu Kiosks

- Craft Ratings/Regional Supply/Availability, Ask the Experts
- Who's drinking where, ask my bar to stock, best head in town
- Festivals/Contests/Portable Outdoor/Temp Events
- Craft Beer Database History, Blend, Trend
- Distributor/Supply National/Global Alliances/Acquisitions
- Brand Building Merchandizing, Perfect Head
- Spirits Metering Companies Diversity to Wine, Spirits, Mixology
- Craft Beer Big Data Real-Time Customer Ratings Anytime Anywhere
- Other system environments, such as: soda/juice carbonated/non-carbonated drinks, spirits, corrosive chemicals, petroleum, hopper grain, loose candy, medical/pharmaceutical supplies or bulk product, coffee...







Build Upon Existing Relationships

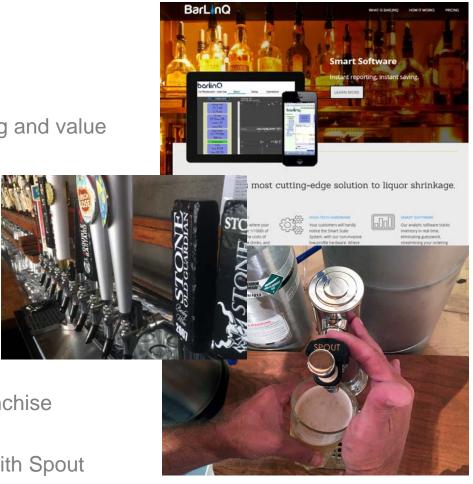
- Liquid Integrity in good position for initial product marketing/sales – major discriminator for their existing business
- Principals of Liquid Integrity are well known in the Craft Beer Industry and DC social scene.
- Help to identify Beta and Early Adopters





Strategic Relationships

- Tempus Flow would complete the offering and value proposition for BarlinQ Clients:
 - Spirits & Draft Beer
- Existing Relationship
- Plug-in System component for existing software
- Beta Client Interest
- Investment Interest
- Good contacts/relationships in larger franchise restaurants/bars
- Established installed base will coincide with Spout product release

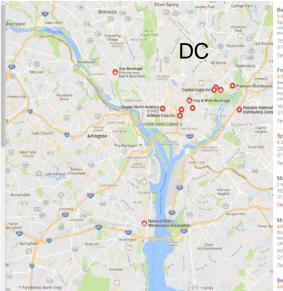


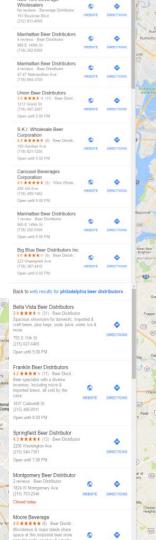


(Backup)

Strategic Relationships: Value Added Revenue Sharing with Beer Distributors

- Inventory Management
- Direct Distribution Stock
- Real-Time Status
- Revenue Sharing
- Client Big Data







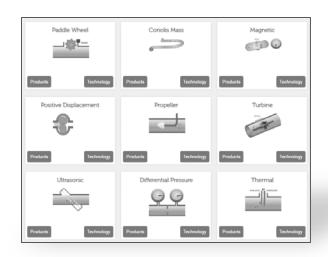
Hop & Wine Beverage

Alcoholic Beverage

Costing soon: 4:00 Pt Ace Beverage

Competitive Metering Technologies

- All other technologies' components are within the flow of liquid being measured
 - This subjects the devices to compatibility, corrosiveness, clogging and cleaning
- All other technologies become inaccurate during low flow situations
- Typical price of competitive flow meter technologies is \$300-\$1000 per line (no wireless)
- Alternative Keg weight approach
 - Non-Per Pour Technology
 - Subject to error Placing items on Keg
- Tempus Flow mitigates all of these shortcomings and costs owner about \$40 per line
 - Precision timing of tap on, including flow percent & Keg Status





- Susceptible to Clogging
- In Flow of Product
- In Flow of Cleaning
- Low Flow Inaccuracies



Tempus Flow Differentiators (Top Level):

- Free Space/Absolute Position (3D (X,Y, Z) monitoring) and use of three sensors (Magnetometer, Gyroscopic & Acceleration), 3D angle detection and partial tap openings in any axis - Accuracy @ the Tap Handle
- Based on known pressure, variable orifice and time, not container size or dependency on POS system
- Non-Invasive Measurement/Inventory System, with predictive Keg change and maintenance scheduling
- IOT Valve/Keg Auto Switchover & Foam Detection System
- Measured Flow Pour each time Works through power losses
- Unique Real Time Status to Bartender (Over/Under Pour, Keg Status, Quality Status) -
- Wireless Bluetooth® or other PAN Low Energy secure wireless communications
- Scalable Lower Cost Subscription Model





















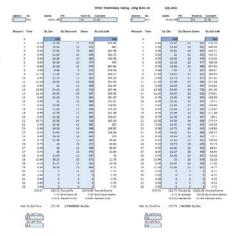


Tempus Flow Differentiators (2nd Level Detailed):

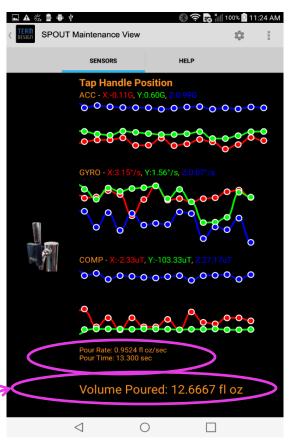
- Unique Systems approach to liquid/gas/granular solid distribution based on 3D positioning of tap handle
- Patent at System, Utility & Method Level Known Pressure, Known Orifice, Known Angle, Known Time = Accuracy
- Keg Change Detection & Status, CO2 Monitoring (High and Low), Nitrogen Monitoring (Mix Library/Brew/Environment)
- Further Derived IP: Keg Accuracy (from brewery), reduced waste of time and product from keg change downtime/re-purge
- Non-spout, free pour or spirits focused Most IP is focused on Spirits not Draft/Craft
- Non-Threatening, but Aware status to bartender
- Invisible to Customer
- Improved Quality, not just inventory
- No Impact to current plumbing
- Enhanced but not dependent on POS
- Minimal Calibration and upkeep
- Enterprise Service Model \$0 Entry cost
- Return On Investment (ROI) proposition
 - Cost Per Tap
 - Entry to Full System Scalability
- Patent IOT Foam Detection
- Patent IOT Pressure Sensor
- System Feedback to Bartender (LED's)
- Craft/Draft focused



- All aspects of system are demonstrable
- Tempus flow could be ready for sale in 6 months
- Technical details have been mitigated
- Accuracy @ Tap eliminates system variables
- High Value/Low Cost Proposition
- Initial product interest and Beta clients
- Initial strategic relations formed
- >99% Accuracy using Alpha Filtering









Bluetooth® IOT Pressure Monitoring







SPOUT



World's first Bluetooth® IOT Pressure Transducer!*

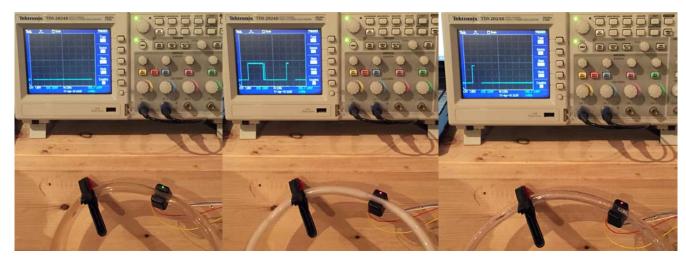
By 2020 there will be 50 billion Internet of Things (IOT) devices

Cisco – IBSG ©2011

Patent Pending



Bluetooth® IOT Foam Detection/Switchover







* Liquid Flow



Foam



Empty

World's first non-intrusive Bluetooth® IOT beer foam detection unit!*





Patent Pending



