Council of State Governments
2010 Innovations Award Application

A Performance Metrics Regimen for State Export Promotion Programs

Program Category: Infrastructure and Economic Development, International Trade

Submitted By:
Center for Trade Development
Office of International Business Development
Pennsylvania Department of Community & Economic Development
Commonwealth of Pennsylvania

March 10, 2009
Executive Summary

Beginning in the early 1970s, US states began to deploy international business development programs to attract foreign investment and expand their constituent business community’s export capabilities. Through the 1980s, growing economic pressures brought about by international competition and a growing national trade deficit prompted many state governors and legislatures to call for more support of their state’s export sectors. Many understood the limits of federal export promotion programs to fulfill all of the educational and transactional needs of their existing and potential exporting businesses, so steps were taken by a large number of states to institutionalize export promotion programs of their own. This typically comprised teams of export specialists both at home and abroad, as well as training, research and finance programs to supplement the staff resources to expand the number, reach and capacity of their state’s exporters.

Over the last 35 years, the investments and initiatives brought about through state-sponsored export promotion programs have expanded and contracted due to a variety of causes, including general economic conditions, state budget capacity, and shifting interests and priorities at the political and programmatic levels. Volatility in funding and political support for these programs, and a lack of consensus and common voice among the exporting community in defense of such programs has hampered program effectiveness and continuity, resulting, in some cases, in lackluster performance records and an inability to demonstrate meaningful and measurable economic benefit given the state investments made in such programs.

Like most state-funded, discretionary programs, trade promotion will never be insulated or isolated from the economic cycles and the impact of the states’ ability to invest in them. What can be done though is to establish programs that clearly demonstrate the return on a state’s investment and ensure political and business leaders understand the effectiveness, reach and impact of a state-sponsored export assistance program. Since 2005, Pennsylvania’s Center for Trade Development (CTD) has developed and continues to refine such a system. We are submitting CTD’s Performance Metrics Regimen for Export Promotion Program as a candidate for the Council of State Government’s 2009 Innovation Awards.
Background

When Pennsylvania’s Department of Community and Economic Development decided to revamp their Center for Trade Development’s export promotion activities and the performance metrics criteria, changes to the system had to accommodate one of the country’s largest international trade networks, comprising a three-tiered structure including 10 staff in Harrisburg responsible for coordinating and monitoring the program; 25 contract staff in 10 organizations across the state serving as local contacts and outreach to exporters in their respective communities; and 30 contractual staff in 24 overseas offices located throughout Asia, Africa, the Middle East and Europe, which delivered the market research, partner search and on-the-ground assistance that the large volume of PA exporters were requesting. See Addenda 1 and 2, “Regional Export Network Partners Map” and “PA Authorized Trade Representatives Map”.

In addition to a quantitative-based metrics performance system that would eventually drive CTD’s operations, the methodology had to have the following qualities:

**Objective:** To measure a spectrum of activities from volume of export promotion activities undertaken through final impact on the clients’ bottom-lines.

**Flexible:** PA needed to account for and measure the activities and effectiveness of trade promotion partners serving business communities in the wide variety of PA’s economic landscapes: rural, suburban and urban, as well as gauge the operations of 24 overseas offices located in well-developed and developing markets.

**Scalable:** Like most state programs, if the performance metrics program was to survive the inevitable program funding expansion and contraction cycles, and prove viable over the long-term, CTD had to develop a viable metrics system that could be scaled up or down without major disruption to ongoing trade activities (scalability is also necessary if this program is to be of any relevance to other states—all with their own unique budget and resource considerations and challenges).

**Divisible:** Once annual system-wide goals for CTD’s program were agreed upon, each metric or goal had to be divided and distributed among 10 in-state regional partners, as well as 24 overseas contractors.

**Understandable:** There was no point in developing a complex program that could not be easily grasped by our stakeholders: the Governor’s Office, state legislators, department management, our working partners, clients and the general public. Though the objective is not to have all stakeholders understand all aspects of the trade promotion program’s operational efficiency and economic impact, it must offer each group the opportunity to grasp and appreciate some aspects of the program’s value based on their perspective and interests.

With these objectives in mind, the CTD developed a program that has served the needs and requirements of all our stakeholders and has continued to function well over the last four years in spite of past and recent volatility affecting the program’s expansion, contraction, but not its mission and perceived value to the business community.
Application

1. **Program Name:** A Performance Metrics Regimen for State Export Promotion Programs

2. **Administering Agency:** Pennsylvania Department of Community & Economic Development

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   Office of International Business Development

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9. **Program Description**

CTD’s performance metrics system consists of five system-wide goals, measuring inputs, outputs and outcomes of the programs and services delivered to our client exporting companies. The five metric categories and definitions are as follows:

a. *Number of Active Clients / New Clients*
b. *Number of Work Orders Filed*
c. *Number of Export Actions*
d. *Number of Exporting Companies*
e. *Value of Facilitated Export Sales*

b. **Dividing and Distributing System-Wide Goals**

Based on these goals, we divide and distribute the system-wide goals among our 10 Regional Export Network Partners, as shown in the following table:
c. Weighting and Capping

In order to add flexibility to the performance measuring system, and to ensure the system could be easily grasped by stakeholders who may not be intimately familiar with CTD’s polices and operations, additional steps are taken to refine and “distill” metrics scoring. To this end, we developed a single “Performance Score” for each REN where a score of “100” would equate to optimal performance over the course of a year’s operations.

The “Performance Score” is derived by applying a weights and caps to each of the quantitative goals as outlined below in Table 2. Weighting assigns a value in percentage terms to each of the five metrics, and, in aggregate, totals 100%. Weighting each metric allows CTD to signal to the REN partners what we believe are the most challenging and significant aspects of the outreach effort and the impact of those efforts.

Capping serves to limit the allowable accrual of points for each performance metric, thereby encouraging REN to meet the goals of all five metric categories. The calculations used to derive the final Performance Score for a sample REN, Region 5, are displayed below in Table 2:

<table>
<thead>
<tr>
<th>GOALS</th>
<th>ACTIVE CLIENTS</th>
<th>NEW CLIENTS</th>
<th>EXPORT ACTIONS</th>
<th>EXPORTING COMPANIES</th>
<th>EXPORT SALES</th>
<th>WORK ORDERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Region 1</td>
<td>245</td>
<td>37</td>
<td>682</td>
<td>61</td>
<td>$74,164,508</td>
<td>490</td>
</tr>
<tr>
<td>Region 2</td>
<td>180</td>
<td>27</td>
<td>501</td>
<td>45</td>
<td>$54,453,864</td>
<td>360</td>
</tr>
<tr>
<td>Region 3</td>
<td>170</td>
<td>25</td>
<td>472</td>
<td>42</td>
<td>$51,344,660</td>
<td>339</td>
</tr>
<tr>
<td>Region 4</td>
<td>110</td>
<td>16</td>
<td>306</td>
<td>27</td>
<td>$33,231,405</td>
<td>220</td>
</tr>
<tr>
<td>Region 5</td>
<td>99</td>
<td>15</td>
<td>276</td>
<td>25</td>
<td>$30,010,954</td>
<td>198</td>
</tr>
<tr>
<td>Region 6</td>
<td>88</td>
<td>13</td>
<td>246</td>
<td>22</td>
<td>$26,706,925</td>
<td>176</td>
</tr>
<tr>
<td>Region 7</td>
<td>81</td>
<td>12</td>
<td>227</td>
<td>20</td>
<td>$24,626,325</td>
<td>163</td>
</tr>
<tr>
<td>Region 8</td>
<td>69</td>
<td>10</td>
<td>192</td>
<td>17</td>
<td>$20,912,395</td>
<td>138</td>
</tr>
<tr>
<td>Region 9</td>
<td>64</td>
<td>10</td>
<td>177</td>
<td>16</td>
<td>$19,279,920</td>
<td>127</td>
</tr>
<tr>
<td>Region 10</td>
<td>50</td>
<td>8</td>
<td>140</td>
<td>13</td>
<td>$15,269,046</td>
<td>101</td>
</tr>
<tr>
<td>TOTAL</td>
<td>1,156</td>
<td>173</td>
<td>3,220</td>
<td>289</td>
<td>$350,000,000</td>
<td>2,312</td>
</tr>
</tbody>
</table>
Table 2: PERFORMANCE METRICS FOR REGION 5, FY 2008-2009

<table>
<thead>
<tr>
<th>Month/Goals</th>
<th>Active Clients</th>
<th>New Clients</th>
<th>Export Actions</th>
<th>Exporting Companies</th>
<th>Export Sales</th>
<th>Work Orders</th>
</tr>
</thead>
<tbody>
<tr>
<td>July</td>
<td>99</td>
<td>15</td>
<td>276</td>
<td>25</td>
<td>$30,010,954</td>
<td>198</td>
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<tr>
<td>August</td>
<td>32</td>
<td>0</td>
<td>117</td>
<td>5</td>
<td>$5,211,016</td>
<td>16</td>
</tr>
<tr>
<td>September</td>
<td>11</td>
<td>3</td>
<td>106</td>
<td>3</td>
<td>$2,834,491</td>
<td>21</td>
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<tr>
<td>October</td>
<td>18</td>
<td>1</td>
<td>116</td>
<td>1</td>
<td>$197,898</td>
<td>3</td>
</tr>
<tr>
<td>November</td>
<td>12</td>
<td>8</td>
<td>100</td>
<td>2</td>
<td>$1,459,655</td>
<td>19</td>
</tr>
<tr>
<td>December</td>
<td>7</td>
<td>6</td>
<td>0</td>
<td>6</td>
<td>$8,008,296</td>
<td>21</td>
</tr>
<tr>
<td>January</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>$0</td>
<td>23</td>
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<tr>
<td>March</td>
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<td>April</td>
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<td>May</td>
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<tr>
<td>June</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| YTD Metrics      | 82             | 18          | 439            | 17                  | $17,711,357 | 103         |
| Remaining to Goal| 17             | -3          | -163           | 8                   | $12,299,597 | 95          |

(A) % of Goal Met | 83% | n/a | 159% | 68% | 59% | 52% = 100
(B) Total Point Goal | 10 | n/a | 20% | 15 | 30 | 25 |
(C) (A)x(B)=Points Earned YTD | 8 | n/a | 32% | 10 | 18 | 13 |
Point Cap Limit (113%) | 112 | n/a | 312% | 28 | $33,912,378 |
Points Weighted & Capped | 8 | n/a | 22% | 10 | 18 | 13 | 71

In Table 2, Region 5’s performance metrics are posted halfway through the fiscal year. In this example, Region 5 has a goal to serve 99 Active Clients. Through December, Region 5 served 82 clients (17 remaining to reach the annual goal). CTD assigned a “weight” of 10 points (or 10%) and a “cap” of 13 points (or 13%) to the Active Clients metric. This signals several instructions to the REN:

a. Assigned a weight of only 10%, Active Clients, while crucial to success, is a low value metric relative to other metrics.

b. If Region 5 achieves the 99 Active Client goal, 10 points will be credited to the 100-point Performance Score.

c. If Region 5 exceeds the 99 Active Client goal, the cap allows them to accrue points up to a maximum of 112 clients (13% above the target goal). This permits Region 5 to offset underperformance in another metric with extra credit accrued in this metric.

d. Exceeding the Export Actions Goals by more than 113% of assigned goal does not contribute any further credit to the Performance Score as the cap places a ceiling on its contribution.

Each REN’s performance score is calculated, graphed and published in CTD’s monthly progress report so that all stakeholders are aware of each partners’ progress, and where action is needed. CTD can assist any REN in need of additional outreach, promotion, etc. See Table 3, REN YTD Performance Scores:
f. How long has this program been operational?
The underpinnings of CTD’s export metrics program were instituted in July 2005, and have been periodically expanded and refined since then.

g. Why was the program created?
In spite of having an extensive team of staff and contractors, events calendar and infrastructure, Pennsylvania’s trade operations lacked a clear set of performance metrics to measure effectiveness, efficiency, and return on the state’s investment. Additionally, without such metrics, it was difficult to establish and define the distinct but complementary roles that each individual and contributing organization had to play in order to maximize the potential of the trade promotion program and the client companies that used the programs and services. Ambitious but reachable expectations needed to be set, distributed, and assigned from the organizational level down to the individual. Setting such expectations by providing an objective, quantifiable and measurable performance metrics system was viewed as the starting point of reorienting and rationalizing CTD’s program. Additionally, with such a system in place, CTD could more clearly demonstrate and defend the program’s importance to the wide variety of stakeholders that periodically inquire about the program’s effectiveness and return on investment.

h. Describe the specific activities and operations of the program in chronological order?
March–June 2005
- Program review, partner interviews, goals refinement; training workshops

July–December 2005
- Proposed new operational policies and procedures to Department management
- Began quarterly training workshops for Regional Export Network partners
- Drafted and implemented new performance measurements for FY05-06
- Draft XPDiT Database requirements definitions

*January–March 2006*
- Implemented XPDiT Database, Phase I
- Set Five-Year Plan goals for Export Sales ($525 Million by July 2010)
- Drafted expanded and refined performance goals for FY06-07

*June 2006*
- Implemented performance goals for FY06-07 based on revised REN budget allocations, historical performance and CTD system-wide objectives

*Continuous*
- *(Spring)* Annual refinement of goals based on historical performance, department objectives, global economic realities, e.g. US dollar value trends

**i. Why is the program a new and creative approach?**
The program is unique in that it incorporates methodologies and valuations that allow a trade program administrator to better manage a larger and more complete spectrum of trade promotion activities, the activities’ contribution to clients’ export successes, and the economic impact on the business community relative to the state investment made to operate such a program.

**j. What were the program’s start-up costs?**
There were no specific, incremental startup costs associated with revamping the program. Modifying the program through the introduction of new performance metrics required some time to research and define what the performance measure should be, how they should be distributed, tracked. It also required additional time to discuss and educate CTD staff, contractors and partners. Transitioning from CTD’s original client tracking system to the more robust and comprehensive web-based XPDiT system cost approximately $125,000. The system was developed in-house. A similar system could likely be launched at less cost using off-the-shelf software and modifying it for specific needs. In our case, state restrictions on the use of off-the-shelf software precluded us from doing so.

**k. What are the program’s operational costs?**
At the time of its inception in 2005, CTD’s operational budget was approximately $4 million, though as mentioned in #14 above, no additional costs were incurred to institute the performance metrics program. The program is not costing CTD any additional dollars than it would have cost to maintain the previous program.

**l. How is the program funded?**
Program funding is provided through an annual appropriation in the state budget for international business development operations, as administered through the Pennsylvania Department of Community and Economic Development.

**m. Did this program require the passage of legislation, executive order or regulations?** No
n. **What equipment, technology and software are used to operate and administer this program?**

CTD worked with DCED’s Information Technology Office to define the requirements of a web-based, relational database that permitted CTD staff, in-state partners and overseas contractors to measure both on-going operations, as well as their year-to-date progress-toward-goal metrics.

On the operations side, the system had to allow all users to file, track and fulfill (close-out) a high volume of “Work Orders” (WOs are numbered, dated requests from PA firms requesting trade advice/counseling, market research, or on-the-ground assistance in a foreign market). The system also had to provide visibility to the user in the event problems or issues arose in the course of helping clients tap PA’s overseas offices. Some examples of issues or trends that the system needed to measure include:

- Low Work Order volume generated from a specific region of the state
- Low Work Order volume directed to a specific overseas contractor
- Low “exporter conversion rate” (i.e. PA client companies using CTD’s trade program and services but not achieving or reporting export successes)
- High Work Order volume directed to a specific overseas contractor possibly resulting in large backlogs and delayed response times

To allow users to measure their year-to-date performance, the system also needed to provide timely performance reports to each user so problems or issues could be spotted early and addressed.

The result is the XPDiT database launched in phases from 2006 through the present. For the most part, the system has been well-received by 85 in-state and overseas users and has allowed the team to coordinate client work and stay current on work volume. See Addendum 4 for XPDiT description, technical details and system architecture.

o. **Did this program originate in your state?**

Several aspects of Pennsylvania’s program originated in the State of Maryland’s trade promotions program in the late 1990s and early 2000, though the system was thoroughly refined and additional quantitative aspects were added.

p. **Are you aware of similar programs in other states?**

In our discussions with many states’ international trade offices through the auspices of the State International Directors’ Organization as administered by the CSG, we are aware that many states track events-related activities and tasks, numbers of clients counseled, and in some case, export sales either attributed to the state program or general export sales trends. We are not aware of another state that tracks the full spectrum of metrics that CTD has instituted, nor are we aware of the quantitative methods that have been applied to measure performance in as flexible a manner as described here.

q. **Has the program been fully implemented?** Yes
r. **Evaluate (pro and con) the program’s effectiveness in addressing the defined problems or issues. Provide tangible examples.**

The advantages of using such a system, combined with an outreach effort that educates stakeholders of the need and value of this system, have been discussed throughout this application and should be evident to state trade directors.

Ensuring the system is perceived as “fair” to all parties being evaluated has required periodic adjustments and allowances. In one example, one of our in-state partners with oversight of a largely rural region, complained that the export dollar sales goal that he was expected to achieve was too high. He indicated that his region was comprised of many small businesses that did not conduct multi-million dollar deals like larger businesses in more urban or suburban settings. Based on his comments, we instituted the weights, capping and the performance score systems. The effect has been to allow our partners to underachieve in one area, (Export Sales, for example), overachieve in another (Active Clients), and allows the partner to still be regarded as operating at a satisfactory or optimal level. This refinement, instituted after the first year’s operation, has gone a long way to bringing consensus among our partners that the system is rational, relevant, and “fair” in its design and deployment.

On a related matter, procedural changes to the collection, documentation and validation of export successes and the dollar value of those sales were instituted concurrently with the new performance metrics program. CTD set a high standard that all sales had to be reported, in writing, using the Export Sales Confirmation form. States that do not use a similar reporting tool and anticipate converting to such a system can anticipate resistance, particularly if that task is assigned not to line staff but to partnering organizations as is done in PA. We have found that over time, however, the majority of clients are willing to report their facilitated sales as long as our office educates the client of the need and importance of such feedback and the confidentiality with which these sales are treated.

s. **How has the program grown and/or changed since its inception?**

As discussed in #9, Program Description, CTD amended the program during year one of the metrics program introduction.

t. **What limitations or obstacles might other states expect to encounter if they attempt to adopt this program?**

Clearly, instituting even a small scale program according to the methods described here will require some measure of state resources and programmatic support, and we are aware that some states, at current funding levels, could not field sufficient staff to undertake even a modest program due to current budget restrictions and varying budget priorities. Where this methodology can be useful, however, are state-sponsored export promotion programs that can benefit from additional operational structure and direction, as well as a clearer set of widely accepted performance goals and activities that contribute to those goals.
Summary

Pennsylvania’s Center for Trade Development has successfully instituted these management techniques thanks to the interest, dedication, and flexibility of its staff, contractors and DCED leadership. The trust instilled in the entire in-state and global team has paid off with a fast-growing and highly accountable trade promotion operation. Each component of the operation—Harrisburg staff, Regional Export Network partners, Authorized Trade Representatives, the Pennsylvania exporter community—has supported and benefitted from this highly structured but flexible approach to helping Pennsylvania businesses expand their reach and capacity in international markets. In addition, collecting interim progress and sales data from our client companies presumes a good and trusting working relationship that prompts our clients to release to us this often sensitive business information.

This performance metrics regimen is one that can be considered by state trade offices seeking additional structure and direction. The program can be scaled up or down depending upon existing resources or the inevitable shifts to resource levels. The regimen does not stand on its own and should be combined with export education, counseling, financing, and events programming conducted by the office or in cooperation with partnering organizations within the state. By virtue of this application, we would be pleased to discuss this approach in further detail with any state trade office contemplating introduction of any aspects of this program.
Addendum 1

PENNSYLVANIA REGIONAL EXPORT NETWORK
Regional Contact Agencies

Addendum 2

Pennsylvania’s International Representatives

TRADE
Australia
Brazil
Canada
Chile
Czech Republic
France
Germany
India
Israel
Japan
Mexico
Netherlands
People’s Republic of China
Russia
Saudi Arabia
Singapore
South Africa
South Korea
Spain
Taiwan
UK
Vietnam

INVESTMENT
Australia
Brazil
Canada
France
Germany
India
Israel
Italy
Japan
Netherlands
People’s Republic of China
Scandinavia
South Korea
Spain
Taiwan
UK

35 Authorized Trade & Investment Representatives
Covering 50+ Countries

9/4/2008

717-787-7190 | www.newpa.com
### Addendum 3

Sample: Export Sales Confirmation Form

### Export Sales

**SAP&DC**

**Export Sales Confirmation**

Pennsylvania's Center for Trade Development (CTD) delivers export promotion programs on behalf of the Pennsylvania business community. To measure our programs' effectiveness and ensure the continuation of these valuable services, we ask that you report export sales facilitated with our assistance.

Please be advised that DCED considers export sales information provided herein to be confidential proprietary information, and accordingly, exempt from public disclosure under the Pennsylvania Right to Know Law, 86 P.S. §§57.101 et seq.

I confirm that Southern Alleghenies Planning & Development Commission assisted our company with the following export sale(s):

<table>
<thead>
<tr>
<th>Sale Date</th>
<th>Country of Destination</th>
<th>Product/Service</th>
<th>Sale Value</th>
<th>Free Export to this Market?</th>
<th>Ren Use Only ATR Assist?</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-08</td>
<td>China-Beijing</td>
<td>Tire Handler</td>
<td>$198,000</td>
<td>☐ YES ☐ NO</td>
<td>☐ YES ☐ NO</td>
</tr>
<tr>
<td>1-08</td>
<td>Columbia</td>
<td>Winch Trucks</td>
<td>$80,000</td>
<td>☐ YES ☐ NO</td>
<td>☐ YES ☐ NO</td>
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<tr>
<td>3-08</td>
<td>S. Africa</td>
<td>Heavy Dump</td>
<td>$60,000</td>
<td>☐ YES ☐ NO</td>
<td>☐ YES ☐ NO</td>
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<tr>
<td>6-08</td>
<td>Haiti</td>
<td>Up-filled Vans</td>
<td>$860,000</td>
<td>☐ YES ☐ NO</td>
<td>☐ YES ☐ NO</td>
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<td>6-08</td>
<td>Russia</td>
<td>Heavy Dumps</td>
<td>$120,000</td>
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<td>6-08</td>
<td>Saudi-Arabia</td>
<td>Trailer</td>
<td>$70,000</td>
<td>☐ YES ☐ NO</td>
<td>☐ YES ☐ NO</td>
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</tbody>
</table>

### Export Activities

Please indicate other export-related activities that your company was involved in during the past year (check all that apply):

- XX Foreign trade events attended, how many: ___3___
  - Please specify countries: Canada, Chile, Russia
- XX Market access grant
- XX Meeting with prospective customers, distributors or partners overseas. # Meetings: ___42___
  - Country: Canada, Russia, Vietnam
- XX Meeting with prospective foreign buyer or distributor in PA
  - Approximate number of meetings: ___12___
  - Certification: ISO Certification
  - Other Certification: ☐
  - Establishment of a foreign-based sales office: ☐
  - Use of Export Finance Programs (USMMA, SBA, Commonwealth of PA)
- XX Subscription to US Department of Commerce services
  - Please specify: Trade Mission to Russia with PA Gold Key

### Comments and Suggestions

<table>
<thead>
<tr>
<th>Contact Name:</th>
<th>Title: General Manager</th>
<th>Company:</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-Mail:</td>
<td>Telephone:</td>
<td>Signature:</td>
</tr>
</tbody>
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*Pennsylvania's Overseas Offices: Australia, Brazil, Canada, Chile, China (Beijing and Shanghai), Czech Republic, France, Germany, India, Israel, Japan, Mexico, Netherlands, Qatar, Russia, Saudi Arabia, Singapore, South Africa, South Korea, Spain, Taiwan, United Kingdom and Vietnam

Please return the completed form to Tim Gressley, SAP&DC, at gressley@sapdc.org or 814-549-6506 (fax). All questions should be directed to Tina Taylor, at taylor@sapdc.org or 814-549-6517 (direct line). Thank you for your cooperation!
Addendum 4

XPDiT Database Description

The XPDiT web application is used to track projects that are collected and inputted by the Trade consultants.

**Software used:**
XPDiT is a web application that runs on Microsoft 2.0 .Net Framework using Visual Studio 2005/2008. The database is Microsoft SQL 2005, which is housed in DCED.

Users log into the secure system with a user name and password on the server that is housed in the Commonwealth Technology Center. The users will have to register themselves using the PA Power Port.

**Hardware Used:**
Application and Database Server:
IBM x Series 346 8840-45U
Intel Xeon Dual Processor 3.6 GHz
Memory: 3 GB