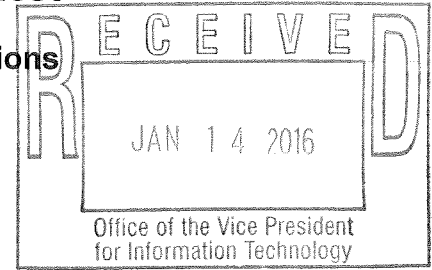


#1603

# NDSU Technology Action Plan Request

## I. Action Plan Introduction and Authorizations



|  |  |  |   |
|--|--|--|---|
| <b>NDSU ORGANIZATION OR UNIT</b>                           |  |  |   |
| Department of Public Health                                |  |  |   |
| <b>TITLE OF PROJECT</b>                                    |  |  |   |
| Expanding the Reach of the Interactive Video Network (IVN) |  |  |   |
| <b>Project Duration (3 years maximum)</b>                  | <b>From:</b> May 2016                          |  | <b>To:</b> December 2016                |
| <b>Type of Project (Check one)</b>                         | <b>New</b> <input checked="" type="checkbox"/> | <b>Previously Submitted</b> <input type="checkbox"/> | <b>Renewal</b> <input type="checkbox"/> |
| <b>Total Technology Fee Request</b> \$19,179               |  |  |   |
| <b>Project Director</b><br>(Must be NDSU faculty or staff) | <b>Campus Address:</b> Research Park 2         |  |   |
| Stefanie Meyer   | <b>Phone:</b> 231-6549                         |  |   |
|  | <b>Fax:</b> 231-5586                           |  |   |
|  | <b>E-mail:</b> Stefanie.meyer@ndsu.edu         |  |   |
| <b>Name (Type or Print)</b>                                | <b>Signature</b>                               | <b>Date</b>  |   |
| <b>Project Director</b><br>Stefanie Meyer                  |  | 1-13-16  |   |
| <b>Unit Head</b><br>Donald Warne                           |  | 1/13/16  |   |
| <b>IT Division Consultant</b><br>Daniel Erichsen           |  | 1/13/16  |   |

### Executive Summary (maximum of 175 words)

Distance education is an increasingly important option for the Master of Public Health (MPH) program and other graduate and undergraduate programs at NDSU. Appropriate Interactive Video Network (IVN) technology classrooms are limited. The pedagogical style for many instructors in professional and graduate programs is heavy in discussion and much less use of traditional lecture. For this reason, having an IVN room with a more flexible design for tables and chairs is important and one that allows for maximal integration of the students at a distance also. Having a system that supports this teaching style is an innovative solution for multiple program needs. This technology request will bring IVN technology to the STEM building which will increase student access to distance education. By investing in the IVN system, NDSU students will have access to distance education technology in an innovative classroom.

We will only accept for consideration Technology Action Plan Request forms which are fully completed and signed according to the guidelines listed in the Instructions, pages 1 and 2.

Technology Action Plan Request forms will be opened and reviewed after the submission deadline.

# NDSU Technology Action Plan Request

## II. Project Overview

---

### 1. How does this project meet student needs?

The MPH program began in 2012 with a distance education option and this option has increased in the number of students utilizing IVN technology to earn their degree from NDSU. The American Indian specialization of the MPH degree has attracted national attention and as a result, the program has students from many states including California, Oregon, and Oklahoma earning their degree from NDSU. In order for the MPH program and other graduate, professional programs to be sustainable and competitive, appropriate distance technology needs to be available.

---

### 2. What audience does this project directly serve? What audience is indirectly served? How many students are affected?

This project will directly serve courses using distance technology delivery and those that use an interactive or flipped classroom teaching style. The MPH program is one of many programs that rely on IVN technology. Indirectly, using IVN technology increases student diversity in the classroom by connecting distance students from all over the world with on-campus students. This past fall semester there were 27 graduate classes taught through IVN which affected over 500 students. In the global world we are teaching to, using distance technology is increasing in importance and demand from students.

---

### 3. For projects that target a subset of NDSU's students, please describe the possibility for broader application in the future.

The use of IVN for distance education has grown at NDSU and proof of this can be seen in the College of Health Professions through the addition of the MPH program in 2012 and the addition of the School of Nursing Bismarck campus. Increasing the number of IVN classrooms is one strategy to help meet the goal of increasing the student body to 18,000. IVN is not specific to any one distance program. It can be used for any course, undergraduate and graduate, by adding the distance technology option to any class. This option increases opportunities for NDSU students to complete their degree by allowing them to start or finish coursework from a distance should circumstances arise (e.g. securing a full-time job; leaving the Fargo-Moorhead area).

---

### 4. Describe both the immediate and long term impact of this project.

The immediate impact of adding video conference technology to the STEM building is to allow programs that are currently using this technology to have enhanced resources which allow for more courses to use an interactive teaching style. This will also allow classes already scheduled in the STEM building to have access to using distance education. The long term impact would be increased exposure to NDSU curriculum by distance students and more effective training to students.

---

### 5. Who will pay for ongoing expenses following the technology fee funded portion of this project (e.g., who will replace hardware or software after it has reached its end of life)?

New equipment for IVN would be on a 5-6 year replacement plan. The more IVN sections NDSU offers, the more distance technology fees are collected for potential support. This system will not require regular, on-going expenses so the plan is to re-evaluate the use and costs at the the end of the life of the system. With the speed that distance technology is changing, there will be different features and options available to consider.

---

**6. Describe how this project will follow NDSU's best practices in information technology. (Please make sure the NDSU IT Division staff you consulted signs in Part I of this form.)**

Daniel Erichsen was consulted on the project. Polycom is the leading video conference vendor and the preferred vendor for the North Dakota University System for distance education. IT will provide the necessary support for system training, trouble-shooting, and maintenance.

---

**7. What service on campus is most similar to the one proposed here? How does this project differ?**

The IVN rooms in the QBB and EML buildings are similar to the IVN classroom project proposed here in that they allow for distance delivery courses to be offered. This project differs from NDSU IVN rooms already established in that the request is for interactive video technology that allows for discussion-based and group-work facilitation which requires an open classroom (moveable table) design, found in the STEM building.

# NDSU Technology Action Plan Request

## III. Project Description (5 pages maximum)

**Include information on the background of this project: how did it come to fruition?**

The MPH program has grown rapidly since the first class began in 2012. Offering a distance education option was very important from the beginning and using the IVN technology was the best option to allow for real-time student interaction between on-campus and distance students. The program matriculated four distance students in the first year. Now, in the fourth year, the number of distance students has grown to seven. The MPH program has enrolled, on average, 20 students each year and so seven distance students is a substantial percentage of the student body.

Material for professional public health education is best delivered in discussion format and the traditional classroom is not practical. Also, by having such a large number of distance students, the traditional lecture-style set-up is really disengaging for the distance students. For these reasons, the MPH program has been looking for ways to use IVN technology in a more engaging way.

In order to change the way NDSU delivers distance education and use the best pedagogical methods, new technology and classroom design needs to be used. By using the IVN technology, the MPH program and other distance-education classes will be able to use the most effective, evidence-based teaching methods and technologies.

# NDSU Technology Action Plan Request

## IV. Milestones

List the date for each project milestone. These milestones should represent the *significant* accomplishments that will be associated with the action plan. For each milestone, please indicate its expected outcome and the means for assessing that outcome. (The table may be extended as needed.)

|    | <u>Date</u>    | <u>Milestone</u>                                    | <u>Expected Outcomes</u>                             | <u>Means of Assessment</u>  |
|----|----------------|---|--|---|
| 1. | May 2016       | Order equipment                                     | All equipment is purchased                           | Inventory   |
| 2. | August 2016    | Equipment installed                                 | Classroom has all equipment installed                | Equipment installed and working appropriately                                 |
| 3. | September 2016 | MPH course is scheduled in IVN accessible classroom | MPH course is taught in the IVN accessible classroom | An additional classroom is gained for NDSU distance education to be delivered |
| 4. |                |   |  |   |
| 5. |                |   |  |   |

# **NDSU Technology Action Plan Request**

## **V. Supporting Documentation**

## NDSU Technology Fee Action Plan Request VI. Budget

(double-click on the form to begin entering data)

|    |   |                |
|----|---|----------------|
| 1. | <b>NDSU ORGANIZATION OR UNIT</b>                              | Public Health  |
| 2. | <b>PROJECT DIRECTOR(S)</b><br>(Must be NDSU faculty or staff) | Stefanie Meyer |

| 3. SALARIES AND WAGES |   |                 |                  |                 |
|-----------------------|---|-----------------|------------------|-----------------|
|                       | Personnel description                   | Number employed | Number of months | Funds Requested |
|                       | A. Staff                                |                 |                  |                 |
|                       | B. Graduate students                    |                 |                  |                 |
|                       | C. Undergraduate students               |                 |                  |                 |
| 4.                    | <b>TOTAL SALARIES AND WAGES</b>         |                 |                  | \$0.00          |
| 5.                    | <b>FRINGE BENEFITS</b>                  |                 |                  |                 |
| 6.                    | <b>TOTAL SALARY, WAGES AND BENEFITS</b> |                 |                  | \$0.00          |

| 7. EQUIPMENT |  |  |  |             |
|--------------|--|--|--|-------------|
|              | A. Polycom RealPresence Group 700 Series |  |  | 9,599.00    |
|              | B. 3-year warranty                       |  |  | 4,080.00    |
|              | C. 3 Ceiling hung microphones            |  |  | 3,000.00    |
|              | D. Camera                                |  |  | 2,500.00    |
|              | E.                                       |  |  |             |
|              | F.                                       |  |  |             |
|              | G.                                       |  |  |             |
|              | H.                                       |  |  |             |
| 8.           | <b>TOTAL EQUIPMENT</b>                   |  |  | \$19,179.00 |

| 9. MATERIALS AND SUPPLIES |                                     |  |  |        |
|---------------------------|-------------------------------------|--|--|--------|
|                           | A.                                  |  |  |        |
|                           | B.                                  |  |  |        |
|                           | C.                                  |  |  |        |
|                           | D.                                  |  |  |        |
|                           | E.                                  |  |  |        |
|                           | F.                                  |  |  |        |
|                           | G.                                  |  |  |        |
|                           | H.                                  |  |  |        |
| 10.                       | <b>TOTAL MATERIALS AND SUPPLIES</b> |  |  | \$0.00 |

|     |                                     |             |
|-----|-------------------------------------|-------------|
| 11. | <b>TOTAL TECHNOLOGY FEE REQUEST</b> | \$19,179.00 |
|-----|-------------------------------------|-------------|

|     |                                   |  |
|-----|-----------------------------------|--|
| 12. | MATCH (Describe in Match Section) |  |
|-----|-----------------------------------|--|

|     |                                  |             |
|-----|----------------------------------|-------------|
| 13. | <b>TOTAL PROJECT EXPENDITURE</b> | \$19,179.00 |
|-----|----------------------------------|-------------|

# **NDSU Technology Action Plan Request**

## **VII. Budget Justification**

Polycom is the North Dakota University System supported vendor for distance education video technology. The equipment requested is standard to equip a room with full-functioning IVN capabilities and was quoted by the IVN consultant for NDSU. The equipment requested are all necessary components to outfit a classroom.



# NDSU Technology Action Plan Request

## VIII. Budget Match

### 1. Attempted Budget Matches:

There are no budget matches to the equipment but staff time for preparation and installation will be in-kind.

### 2. Actual Budget Matches:

### 3. Additional Budget Match information: