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Teaching and training Christian leaders by building  
a bridge between God's truths and our hearts.

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## Amazon Valley Academy Technology Project



Ananindeua, Pará - Brazil

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*“The teaching of your word gives light, so even the simple can  
understand.” Psalm 119: 130*

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Ananindeua, Pará - Brazil

# THE PROJECT OVERVIEW

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Brazil is the largest country in both South America and the Latin America region. It is the world's fifth largest country, both by geographical area (3,287,956 square miles) including 21,411 square miles of water and in total population of over 203 million. Brazil also has the widest and second longest river in the world the Amazon River, it is estimated that between 400 to 500 indigenous Amazonian Indian tribes exist throughout the Amazon Rainforest.

The nuclear family in the Brazil typically consists of five, and they have strong ties to the extended family. It is quite common to find three generations living under the same roof.

The municipality of Belem, our closest city is located in the state of Para which is located in northern Brazil; it is the gateway to the Amazon River. It has a population of over 2.5 million people and is considered the 11<sup>th</sup> most populous city and the second largest city in the northern region of Brazil.

Children's education generally starts at the pre-K level at 3 years old and kindergarten is available for children from ages 4 to 6 years old. Primary and lower secondary education is free and compulsory for children between the ages of 6-14, the upper secondary education or (**Ensino Medio**) for ages 15 to 18 is also free but not compulsory. Higher education or (**Ensino Superior**) is provided at a public or private university. Higher education is free at a public university.

Brazil's public education system is in need of extensive reform. In a report by the World Bank, it was predicted that Brazil is in peril of falling behind other developing economies if it does not improve its educational system. Currently there is a vast shortage of qualified work force which threatens to cripple the economy. One of the great obstacles to educational reform remains the disparity between private and public institutions.

Public schools are usually located in poor districts that usually lack the resources to improve the infrastructure. In addition, teachers working at these public schools often do not possess the knowledge or expertise to provide students with quality education. Private schools are the main recipients of government funding. Thus, the average private school student is significantly more academically advanced than their counterparts at a public school.

A significant problem that we see each year is the millions of students that graduate from secondary school who are unable to write an essay, to solve a basic Math problem or have no understanding of the basic concepts of the sciences. The most disturbing aspect of this phenomenon is that this is socially acceptable in Brazil. The Brazilian people now know and accept the fact that there is a strong probability that they will not learn anything in school; currently only 10% of the population has a higher education degree. What is even more astonishing is the fact that 32% of the undergraduates in the colleges are functionally illiterate. This is clear evidence that as higher education has become more accessible, the educational level of the students is in decline.

# THE PROBLEM

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Senior students at the Academy



Junior students at the Academy



# THE PROBLEM

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Believer's Bridge in junction with their in-country partner Missao Ponte administers an international Christian school near the mouth of the Amazon River in Ananindeua, Para, Brazil called Amazon Valley Academy (AVA). AVA's campus sits on approximately 7 acres. It consists of six buildings and a field. The newest building has 11 classrooms, administration offices, a library and chapel. The other buildings have a total of 17 rooms/classrooms. We offer an accredited American-style Christian education for students from Early Childhood through Grade 12.

AVA began as a school for missionary kids in 1957, moving to its current location in 1962. Having undergone several changes, the current student demographic consists of mostly Brazilian nationals with a few expats. Our teachers and staff are mostly native North Americans, but include Brazilian nationals as well. Besides AVA, Believer's Bridge also administers an EFL program and a new University.

Believer's Bridge foundation recognizes the need for higher education with Christian fundamental values and has embarked on a long term mission to provide higher education for the youth of Brazil in the State of Para. When the Academy relocated to the new building, there was a problem of a lack of technology. Due to the high cost of the construction, some important projects had to be eliminated to reduce expenses in the building process, and technology was one of them.

The urgent need for proper technology in the school is much greater now than ever since we hope to incorporate technology into the academy's curriculum. This is a necessary step to help our students become technology-literate beyond the basic word processing skills. This instructional approach (using technology to develop an understanding of concepts) has been proven to be highly successful, and results in deeper student comprehension and greater student engagement. For this is the reason, our project has become a high priority for the academy.

## THE SOLUTION

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Believer's Bridge and Missao Ponte development team has carefully analyzed the technology needs for the AVA buildings, they include proper technology for the daily curriculum for the students as well the needs of our teachers. The team has determined that the main building requires a full technology upgrade to bring the academy up to standards with current technology, this will allow the academy to better prepared the students and give them a competitive edge.

An initiative has been created to resolve these urgent needs for technology in the AVA buildings. Generous, compassionate donors will have the opportunity to help make the AVA's Technology Upgrade Project a reality. In an effort to maximize this transformation, after a thorough analysis by the Believer's Bridge development team, these are the recommendations for the proper installations of adequate technology.

### Our Goal:

**Proper Installation of technology throughout building.**

The project will consist of:

- Cat5 wiring installation throughout building and class rooms.
- Installation of wireless system
- Cisco ISR 4321 System
- AC Power Supply
- Wireless controller console cables
- Licensing

**TOTAL COST: \$ 35,440.89**

# THE SOLUTION

## AVA Technology Building Diagram



Today, you have a chance to respond and share Christ's love with a young adult in Brazil through your participation in the AVA Technology Project!

# THE SOLUTION

## Ava Academy Technology Project Budget

QTY	DESCRIPTION	UNIT COST	TOTAL COST
1	Cisco Service Router IRS4321		\$1,828.53
1	Cisco Smart net Bundle		\$299.08
	AC power supply, AC power cord		
	4G DRAM, 4G Flash Memory		
1	Bundle WLC2504 w/ 10 AP Lic		\$1,907.89
	<b>Cabling</b>		
72	Cable Patches	\$2.00	\$144.00
5	UPS for Switch Room	\$200.00	\$1,000.00
8	Network Protection units	\$20.00	\$160.00
28	IP Phone/Intercom	\$45.00	\$1,260.00
53	Drops	\$120.00	\$6,360.00
13	Wireless AP	\$150.00	\$1,950.00
11	Ports Switches: 4,8,16 and 24 ports		\$1,200.00
	<b>Total Cost of Equipment</b>		\$16,109.50
	<b>As Per Brazil Import Tax Law</b>		\$16,109.50
	<b>Contingency</b>		\$805.47
	<b>TOTAL PROJECT COST</b>		\$33,024.47
	<i>Believer's Bridge Supervision &amp; Reporting Fee</i>		\$2,416.42
	<b>GRAND TOTAL</b>		\$35,440.89

*The funds that you have generously contributed to Believer's Bridge will be used toward completion of the Project that you have chosen to support. If any of your kind donations exceeds budget cost, rest assured that it will be used to fund other Believer's Bridge projects designed to fill the urgent needs.*