

Pilot Program For Dominican Republic

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The development of a television industry in any new market, especially in countries outside the USA, depends most heavily on local manufacture of the TV tube and the TV cabinet, as either/both are very bulky, hence require inordinate amounts of money for shipping costs. In many instances, shipping costs of said items actually cost more than the price of manufacture of them.

By contrast, the associated electronic hardware which can be purchased on an O.E.M. (Original equipment manufacturer) basis, at least until manufacturing capability is achieved, can be shipped into the same area at $\frac{1}{4}$ of the cost of either the tube or the cabinet - yet said electronic components represent more than 60% of the total cost of a complete TV set.

Therefore, a successful TV set manufacturing operation can not be started/continued unless the TV tube and the cabinet are manufactured reasonably near the point of end use.

Over the past 30 years, it has been demonstrated in the USA, that the TV tubes, as manufactured for the public, can easily be modified to replace tubes found in most, if not all, military equipment (radar), display devices (airports), medical equipment display devices... (EKG - X-ray), computer display terminals, (data display - with hard copy capability), etc.

Proliferation of visual communicative devices used by the public, in itself provides untold educational assistance by the very fact that data is being displayed and acted upon. Intentionally-provided public educational programs, televised at the appropriate times, would provide increased specific knowledge to all who view them, promote the common language (eliminating dialects).

It will also increase public pride of the homeland, contribute significantly to GNP, provide an important, world- wide accepted usage of leisure time while at the same time promoting the desirability of peak physical fitness and mental capacity.

It has often been said that one picture is worth a thousand words; one deed is worth a thousand pictures. The Government of the Dominican Republic, by demonstrating its cooperation in such an accomplishment, will gain world-wide recognition for such an accomplishment. It will benefit the masses, enhance manufacturing capability of Dominican industry, with the happy side benefit of strengthening the military.

Increased diversification and versatility of Dominican industry will invite increasingly greater amounts of foreign capital and technology. As the common people become more educated and more affluent, the Dominican swing to more industrialization, reducing dependence on agriculture, must inevitably strengthen the economic well-being, of the nation, at an ever increasing rate.

To get down to more specifics, investigation has revealed that there are presently approximately 100,000 TV sets in the Dominican Republic with approximately 4,000 sets being located in hotels and leisure

establishments. By 1979 the number of sets in hotels, etc. will increase to approximately 10,000 . Past experience in the USA has shown that these 10,000 sets will be completely replaced every three years, creating a demand for that segment of TV set ownership to approximately 3,333 new TV sets per year.

Again, as shown In the USA, those used TV sets can be refurbished and sold to the general public for approximately 50% of the original sale price providing a relatively modem TV set at a price that more people can afford. Further, a financing entity set up specifically to handle those transactions, can reduce the monthly payments to as little as, \$5.00 per month, thus bringing the availability of TV sets to even more people.

In the USA the average life of a TV tube is approximately 4 years while the average life of the TV set is approximately 10 years. In extrapolating these numbers and assuming that a new TV set will sell for approximately \$300.00 and a used one for approximately \$150.00. Replacement tubes selling for approximately \$40.00 The following minimal figures may now be .predicated, starting with 1979.

Sales of new TV sets \ hotels)	3,300 @ 300.00	\$ 990,000.00
Sales of new TV sets (to public)	1,000 @ 300.00	\$ 300,000.00
Sales of used TV sets	3,300 @ 150.00	\$ 495,000.00
Sales of replacement tubes	25,000 @ 40.00	\$1,000,000.00
Sales of tubes to industry	500 @ 40.00	\$ 20,000.00
Sales of tubes for military applications	100 @ 40.00	\$ 4,000.00

Therefore we could reasonably expect totals of 25,600 replacement tubes at an income of approximately \$1,024,000.00; 4,300 new TV sets at approximately \$1,290,000.00; 3,300 used TV sets at an income of 1100.00 per year; for a grand total of \$2,909,000.00 for the year 1979.

Because of increasing population, normal increase of standard of living, increase of foreign-invested capital in leisure and industrial complexes, etc., a 15% per year increase in the above noted figures would appear reasonable and extremely feasible so that by 1985 the TV set manufacturer capability might well be al proximately 17,380 new sets per year selling at \$5,214,000.00 ; TV replacement tubes of 119,520 at \$4,780,000.00 per year and the number of TV sets both new and used be swelled to approximately 134,760 sets.

Earlier, it had been briefly mentioned that a financial entity could be created to assist the general public to purchase the TV sets. Exploring this in greater detail, the following as an example is envisioned: A family's total income is \$10.00 per week; the total cost of an used TV is \$150.00. The family may

The family would then pay to the finance company \$5.00 per month until the sum of \$100.00, plus interest and carrying charges, (paying the full obligation in prox 32 months), at which point the family then owns the set. At that time may be traded in for a newer TV set, depending on the individual. By this method it would take a minimum of capital to start this type of arrangement. The labor requirements, with the Dominican Republic locals receiving from \$3,000.00 to \$6,000.00 per year, to operate the plant(s) in the Republic might be as follows:

TV payroll approximately \$1,000,000.00 per year operation for manufacturing , 160 local

people with 4 consultants

Separate and apart from all of the foregoing, many other benefits will accrue to the industrial capability of the Dominican Republic because of the diversity of necessary to sustain the television industry manufacturing.

For instance: 1) High vacuum pumps necessary for the manufacture of TV tubes may also be used in cryogenics, medicine, metal deposition, electron-beam welding, chemical mixing, high altitude experimentation, applications, neon sign manufacture and repair, air conditioning repair, generation, inertia recapturing wheels, sterilizers, desiccators, storage of normally destroyed by oxygen atmosphere, creating exotic atmospheres and or nitrogen, negative pressure applications and hundreds of industries other than the TV industry.

2) Bombardiers (father of Microwave home equipment) to produce electronic induction heating necessary for de-gasification of vital elements in the television tubes; which may also be used in the manufacture of razor blades, soldering (including silver soldering); tempering metals; costume jewelry manufacture; selective heat treatment;

3) Medicinal (such as ultra-modern techniques for treating cancer), welding and soldering of components with no external means of achieving same (such as welding of a pipe within a pipe), shrink fitting and hundreds of other uses including many in conjunction with vacuum pumps not herein mentioned.

4) Other equipment normally used in the manufacture of TV tubes, cabinets and the assembly of TV chassis's. Still other uses, such as follows: aluminizing equipment, high-voltage supplies, high vacuum equipment; epoxy resin equipment and supplies; low voltage high current welders; angle iron cutters; diverse types of power saws (metal, wood, glass); high speed drills; powered emery and grinding wheels; glass buffing equipment, etc. Again much of this equipment may be used in myriad applications in many other industries with little or no change or adaptation.

NOTE: In the 2nd paragraph herein, we have alluded briefly to dissemination of public information via television. In any developing country, the education of teachers, competent enough to impart their knowledge into the students is an absolute necessity. By increasing the students knowledge, such will ultimately translate toward an upward standard of living. This of course will assist the nation in and thereby increase the GNP. In any country this is always of the highest priority.

It is hereby suggested, that with the assistance of the Dominican Republic Government, the following method of education, is not only desirable, but represents the most advanced system of education in the entire world today, second to none.

With as few as 5 or 6 of the most effective teachers in the Dominican Republic, and by installing TV sets in every single class room in every school in the nation, by the use of the educational or government sponsored TV station, each master teacher at the TV studio may effectively instruct as many as 10,000 students, simultaneously.

Each classroom teacher (adjunct-teacher), would then serve as an assistant to the TV instructor. (HENCE TWO TEACHERS IN EVERY CLASSROOM).

Despite the disparity of ages and classes 2nd grade through 5th, all can be simultaneously

instructed in the vital statistics, geography, history and economics of the Dominican Republic during a daily 1 hour class. There should be three (3) breaks of three (3) minutes each per hour. This would effectively provide Fifty-one (51) minutes per hour of master-teacher instruction. The three (3) minute break periods, would allow question and answer periods for the Adjunct teacher to clarify and/or emphasize items of greater importance, just being taught.. These break periods may be used for any other legitimate reason, the Adjunct-teachers feels is necessary, (such as restroom visitation/exercise/etc.

The 7th and 8th graders may receive instruction during afternoon hours. The following television-assisted education might be structured during those hours daily with a change of subjects determined by competent Dominican Republic educationists suggested as follows:

Monday - math; Tuesday - language; Wednesday - science; Thursday - geography; Friday - history or any substitution of curriculum decided upon. During hours when TV assist is not provided, normal school activities, under the direct supervision technique may be resumed. This may include, review of televised instruction, preparation for the next TV-assisted instruction period, and/or even testing for the effectiveness of the TV-assisted instruction, study periods, rest periods, arts , etc.

Needless to say, there may be more than one (1) subject per day, taught by the “Two Teacher” system. Also assuming proof of the validity and effectiveness of this approach to education, it might thereby be desirable to broadcast TV instruction in two (2) or more different subjects simultaneously, via 2 different channels in order to spend on subjects deemed requisite.

At this point, people responsible for the education of the Republic youth will decide upon the curriculum best suited to properly educate Dominican Republic grade schoolers.

Potential attributes of such system would be as follows:

- 1) All persons using the system will tend to speak a common language thereby minimizing dialects, and/or regionalism accents.
- 2) Inexperienced, young, or new teachers will have .the benefit of themselves working with, the best teachers in the nation, effectively becoming upgraded themselves, thereby becoming more effective teachers.
- 3) The assurance the masses are being taught the most up to date knowledge, uniformly.
- 4) Provide superior educational dissemination of all vital knowledge relative to the Dominican Republic, because of the simultaneous link-up of all schools, in all provinces, in the country, as no other country in the history of mankind.
- 5) Doubling the literacy rate in a single generation.
- 6) Leading the world in techniques via this revolutionary new concept with continued experimentation into specific areas during normal school hours when TV assist is not ordinarily in use.
- 7) Expand the curricula of existing college facilities, with on diverse professional categories such as engineering, doctor, accountants, scientists, business administrators, etc., de-

emphasizing need for so many teachers.

8) By taping the Master-taught lessons, superior sessions, might be retained for use in the grade classes in the following years. These tapes may be edited/upgraded/updated whenever it is deemed necessary/advisable.

Further, the educational system will feed on itself, by having the newly-educated students becoming better prepared, so as to eventually making entrance to the teachers' colleges more stringent. This in turn would assure that the cream of the crop, of teacher applicants, would thereby be effectuated.

An added incentive to those modernly-educated selectees, would be the possibility of becoming one of the TV-assist MASTER teachers... obviously a prestigious and important position.

All of the foregoing represents just a brief recital of the beneficial effects from a locally situated TV manufacturing operation which has the backing of the Dominican Republic Government, in conjunction with native- supplied capital and foreign-supplied technological assistance.

All subjects discussed herein, may be expounded upon in more detail, to any interested party.

Respectfully submitted,

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