POLICY DOCUMENT TEMPLATE

Section 1 - Summary

1.1 Author(s)

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1.2 Background

Representative of Hellenic Vocational Educational Association. I would like to make a proposal about recycling and vocational education as training framework for inquiry and creativity. It's a way to show you how vocational education can contribute to find real life solutions at local community level and moreover possibly at state level.

1.3 Descriptive title

RECYCLING SCHOOLS. S.T.E.A.M can be the key in research for sustainability and prosperity of citizens as modern age demands. Wastes are a real huge problem we ought to figure out a solution immediately all together and each one by his / her power position.

1.4 Abstract

My policy is about recycling ideal and how vocational education can help on that crucial matter. Could beneficiary be the educational scientific and vocational community as they are called upon to work together and find a solution to a real problem through science and technology? what do you think of that? I think that recipients are students who are called to collaborate between them thus promoting equality between boys and girls in the student community as a whole for real problem solution, citizens who called to involve in recycling idea from their home doing trash division till public authorities who put the recycle bins to collect different materials from citizens. Benefits are for all community that's why become important for them. As scope, vocational education laboratories can be used when they are fully technologically equipped so that professional specialties and scientists can work together for inquiry in problem-based solutions. The organization of workshop will require 1 month at least and the workshop time will take place in two days a week for 2 hours. I can estimate that recycling vocational school workshop can effectively work for local benefit at a depth of two years at least. I strongly believe that issue is very important for the reader as this is an issue related to the sustainability of cities in the future. Reader can be a supporter of this proposal when he / she make a try of adopting it as part of the yearly activity plan of his/ her school and will communicate with all the measurable results of waste reduction of his/her local community and the profits has been gained by that.

Section 2 – Goals

2.1 General goal

Education of the recycling meaning to the students.

Economy Profits from recycling actions for school and local community.

Human relation profits.

Discovery of new materials through recycled ones.

New applications of recyclable materials in industry in combination with new technologies.

The general problem is the increase of cities waste cause of the overpopulation and lack of information for utilization of recyclable waste.

Recycling is a matter that community must educate to do right at home first. Education in all grades can collaborate for citizens education then scientific and vocational community in education can collaborate to find feasible ways of recyclable materials and create new ones more ecofriendly so all community would be benefitted by that at last. Collaboration – communication – creativity builder of new future foundation.

2.2 General goal description

As we all realized overpopulation in cities is a real situation which create living problems one of them is wastes. Dozens of trashes all over the world exposed to unsuitable places, even marine ones, polluting the environment in various ways. Education and technology, I believe can help this aim from all levels of education and of course vocational education.

Starting at educate elementary and high school kids the meaning of recycle and profitable ways by this for their sustainability in future, extensively as inquiry project to tertiary and vocational students in cooperation with scientists to find new types of materials by recycling can be used in any production sector.

RECYCLE - INQUIRE - TRANSMUTE - REUSE - that's the main goal.

https://www.sciencedirect.com/science/article/abs/pii/S092134492100505X

https://www.mdpi.com/journal/recycling

https://www.epa.gov/recycle/reduce-reuse-recycle-resources-students-and-educators

https://www.wm.com/us/en/recycle-right/recycling-101

https://youtu.be/ocfhOSgQ_uA

https://youtu.be/Fyze8WMKc-s

https://www.nationalgeographic.com/environment/article/bornholm-island-denmark-goestrash-free-by-recycling



Recyclable materials such as glass, plastic, metal, paper, aluminum cans even fabrics can be either supplied by school area citizens to school or maybe the local authority in cooperation with the recycling factory can request the provision of leftover recyclable materials for the disposal of the educational action.

The materials that will result from the renewable raw materials will be reused for decorative or other constructions that can be sold in a school bazaar and the profits can be used to buy laboratory tools. Materials that will emerge and do not make for decorative constructions can be used in laboratories of various school specialties for further research and creation on the concept of recycling and sustainability in their professional section.

2.3 Strategic goals

The research about recyclable materials can be deliver during teaching hour as an include into analytical teaching program to be able to students understand technical features of the materials are going to use in the workshop so time is the stable teaching time but the workshop time will take place in two days a week for 2 hours.

I can estimate that recycling school workshop can effectively work for local benefit at a depth of two years at least in condition that there is α calculator of data analysis (made from collaboration between scientists - teachers - students) to measure local waste reduction in monthly average. Strategic goal can be to reduce in two years by 50% or up local waste creating new income for the local community or discover new jobs from the concept of recycling.

Section 3 – Targets

3.1 Beneficiaries

Beneficiaries are the educational community as they are called upon to work together and find a solution to a real problem through science and technology. As beneficiary can be taken into account the recycling local industry from the leftover material supply to school activity as this help them to have more space in their warehouses for new recyclable raw materials for processing. Local authorities placing special recycling bins in neighborhoods directing residents to sort waste. Final beneficiaries are all members or carriers who communicate and collaborate for balance in recycling procedure starting from educational contribution till retrenchment and production of renewable materials.

Many benefits they receive except for economic school profit of the action a survey can be used to measure how much this workshop affect positively as a creative experience to students and as sustainable idea for citizens life or as reduce economy idea in local government counting the waste reduction percentage, putting his area vocational technical school in the center of innovation.

3.2 Recipients

I think that recipients are students who are called to collaborate between them thus promoting equality between boys and girls in the student community as a whole for real problem solution (human profit) and citizens who called to involve in recycling idea from their home doing trash division for collecting. For achieving the strategic goal, I think that recipients must know about the recyclable items and do the right deposition to the corresponding bin starting that procedure from home.

3.3 Special needs

Remarkable is that local schools with disabled people which usually have laboratories with appropriate technological equipment can be included in this educational activity.

Everyone can do a thing for recycling even disadvantaged people who can help at material deposition from factory's leftover in labor, something cannot harm them at all. In a way recycling idea can make people to learn information for innovative creative actions if that can be through vocational labors and special needs school labor would be ideal. Special needs people are so creative mind that can give us inspirations in something we can't think about also recycling occupation can bring them an income for their laboratory as well. Otherwise can be revealed new occupations through recycling school for special needs people or even something innovative. Benefits for all.

Section 4 – Value Proposal

4.1 Value proposal

RECYCLE - INQUIRE - TRANSMUTE - REUSE

Collaboration – Communication – Creativity – Critical thinking for real community problems.

4.2 Results

10 or up vocational technical schools who have well equipped laboratories to participate in RECYCLING SCHOOL WORKSHOPS.

10 or up secondary STEAM educated vocational specialties teachers and practitioners for workshop organize and participation on them.

10 special needs schools who has well equipped technological labors. Kids participation depends on their teacher availability.

12 vocational technical students who will be small groups with different roles in the workshop activity.

Parents participation of any kind.

10 scientific teachers educated on STEAM approach to influence vocational teachers/practitioners and students for measure tools or else innovative ideas. Interdipliscinarity in real action.

4.3 Impact

New age challenges are big especially in cities so community have to enrich in new ways for sustainability and prosperity in future. In that fact education can help people to learn and reconsider about profitable ways from wastes. The impact of recycling school workshops can be priceless for local communities counting the waste reduction percentage.

In that case we aim to make the workshop program a stable presence in the annual education plan of school forwarding scientific and education professionals collaboration into real problem-solving approach.

Section 5 - Costs

5.1 Cost structure

Miscellaneous services: Recycling factory supply if they haven't been able to give leftover materials.

5.2 Funding opportunities

That probably we should ask decision makers to make a clear choice on that.

Section 6 – Action Plan

6.1 Activities

4 student groups. Each group will deal with different kind of recyclable material.

METAL - PAPER - GLASS - ALUMINUM

Each group will make constructions from recyclable materials that have undertaken in general. It is preceded a course analyzing recyclable raw materials and derivatives that may arise.

Materials that will result from renewable raw materials will be reused for decorative or other constructions that can be sold in a school bazaar and the profits can be used to buy a laboratory tool.

Materials that will emerge and do not make for decorative constructions can be used in laboratories of various school specialties for further research and creation on the concept of recycling and sustainability in their professional section.

Workshops activity lasts for 1 hour 2 days a week as expanding practical part after research and theoretical analysis with the scientists and teachers.

Section 7 - Risks

7.1 – Risks/Competition

- a. Risk description
 - 1) Workshops proactivity competition
 - 2) Competition between vocational teachers and scientists
 - 3) Injuries in the workshop
 - 4) Competition of non-selected cause of lack technological equipment school to selected one.
 - 5) Competition between workshop groups.

b. Probability

1	Very low probability
2	Low probability
3	High probability
4	Very high probability

c. Severity

1	Negligible impact
2	Dynamic impact
3	Low risk of failure
4	High risk of failure

d. Mitigation strategy

Continuously encouragement to stakeholders for collaboration and communication.

Positive feedback to student's efforts.

General goal redefinition.

Positive support for achieving the goal.

7.2 – Risks/Opposition

a. Risk description

Negativity for the program.

Refusal to contribute with any way.

Program demolition.

Cooperation to strengthen the program in every way.

No action.

b. Probability

1	Very low probability
2	Low probability
3	High probability
4	Very high probability

c. Severity

1	Negligible impact
2	Dynamic impact
3	Low risk of failure
4	High risk of failure

d. Mitigation strategy

Meetings and debates about recycling matter.

Discussions about alternatives ideas.

Public hearings and exchange of views about recycling.

No action.

7.3 – Risks/External Menace

High level meetings and debates for exchange of sustainability view.

Advocacy for recycling ideal through education.

Open public consultation.

No action.

Good practice promotion

a. Risk description

b. Probability

1	Very low probability
2	Low probability
3	High probability
4	Very high probability

d. Severity

1	Negligible impact
2	Dynamic impact
3	Low risk of failure
4	High risk of failure

e. Mitigation strategy

Public relation direct contacts.

High level meetings and debates.

Open public consultations.

No action.

Public hearings and exchange ideas.

Negotiations.