



Resilient Villages

Concept for

A New Ukraine

1st Priority: Off-Grid Winter Heat

Until we can resume work in Ukraine, early December likely, the campaign runs digitally from border nations. The information flyers, now in Ukrainian as well as English are available on the website:

RoadMapToLife.org

and soon on other social media platforms.

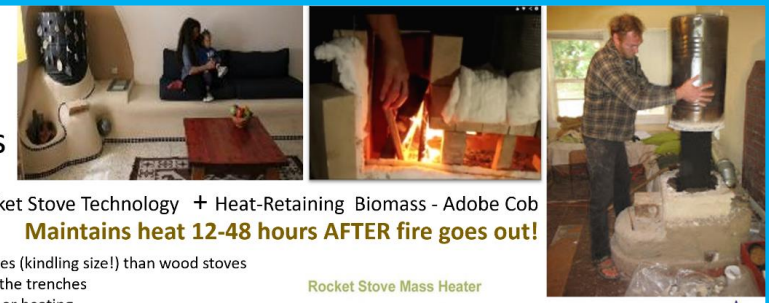
Distribution of the PDF files to key individuals, groups, and government officials hoping to spread this efficient, easily built, off-grid heating & cooking system.

To spread this idea, the PDF files are being distributed to key groups, individuals, and government officials.

Help share the information now!



Rocket Mass Heating (RMH) Systems



Proven Rocket Stove Technology + Heat-Retaining Biomass - Adobe Cob
Maintains heat 12-48 hours AFTER fire goes out!

- 25-80% less wood/combustibles (kindling size!) than wood stoves
- For homeowners or troops in the trenches
- Uses: cooking, baking, drying, or heating
- Independence from power grid
- Recycle from war's destruction
- Modify to meet your needs
- Business potential
- Easy to build

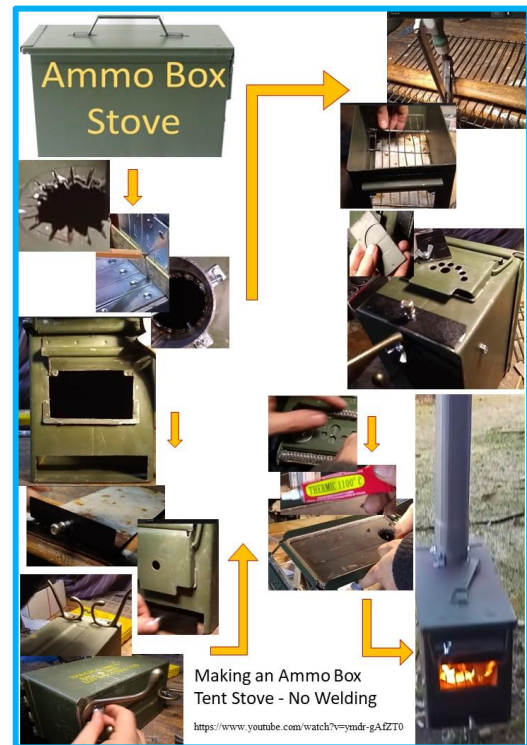
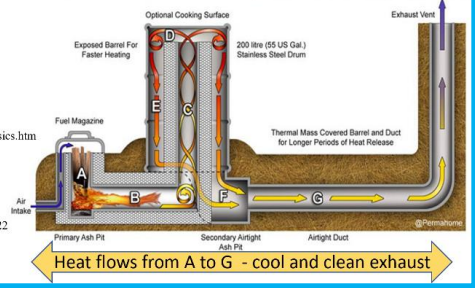
Some Online Resources

Images are from links below
<https://www.youtube.com/watch?v=SqzuV5GDSWc>
<https://www.youtube.com/watch?v=A-xK7vZd7nk>
<https://www.youtube.com/watch?v=foCz8RIs7Pg>
<https://www.youtube.com/watch?v=sa2DxRC8SMg>
<https://www.youtube.com/watch?v=qg-4vTtBkQ>
<http://naturalhomes.org/permahome/rocket-mass-heater-basics.htm>

Now in Europe!

ROMANIA: <https://bhudeva.org/?s=rocket/>
 KOSOVO: <https://3pcas.design/building-a-rocket-stove-mass-heater/>
 PORTUGAL: Training center!
<https://www.permaculturinginportugal.net/learn-with-us/courses/batch-rocket-mass-heater-experimentbuild-2022>

The Best Book: <https://www.amazon.com/Rocket-Heater-Builders-Guide-Step/dp/0865718237>



throughout you can use reclaimed steel pipe or ducting especially further

From rubble to heat-holding mass

Off-Grid Heating & Cooking

for homeowners or military on the move!

Used metal cans make great portable stoves!

Even use empty ammo cans! Video and plans @ Justin Voss
<https://www.youtube.com/watch?v=qg-4vTtBkQ>
<https://defiantmetal.com/collections/project-plans>

Rubble Wanted!

Recycled bricks, concrete chunks, steel barrels, ducting, metal, rocks, and more can be used.

Cost? almost \$0 - \$300 for simple designs

Typically it's a J-tube configuration, insulated.

It burns all the smoke, all of the fuel that is present in the wood is burned completely

Above: Intro to rocket technology, DIY videos, and resources is now in Ukrainian & English!

Left: No words needed to show building basics using empty ammunition cannisters! Link to video shows full build.



Resilient Villages

**Independence from the Public Grid
Tiny Homes, Sustainability, Permaculture,
Eco-Friendly Business Potential**



What is a Tiny Home?

Growing globally, the tiny house movement is, physically, small floor space structures (lofts extra) of about 37 sq m (400 sq ft)

Socially, the movement is a:

- return to simpler living
- potential green solution
- Better-than-shelter idea

One family's unique assortment of Airbnb apartments often house displaced Ukrainians or soldiers on leave. Although not planned as such, they could serve as tiny homes. For this minimalist, they provided a fine home for nearly three months and could easily serve as my permanent home. Similar structures could be quickly and cheaply constructed from salvaged materials in war-ravaged communities. Such homes can be the basis of the Resilient Village concept, introducing a leaner, greener lifestyle for a rebuilt Ukraine.



Photos from my "home", a pair of Airbnbs in Chernivtsi Ukraine



It Takes a Village – Mighty Hubs of Tiny Homes

- **Permanent** - not temporary solutions
- **Minimalism** encouraged & taught in community
- **Off-the-grid** power, sewer, water, winter heat
- **Permaculture** methods for food, self-sufficiency
- **Income** source: convert easily to Airbnbs, rentals
- **Recycled** materials as primary building materials
- **Recycling** industry to boost the local economy

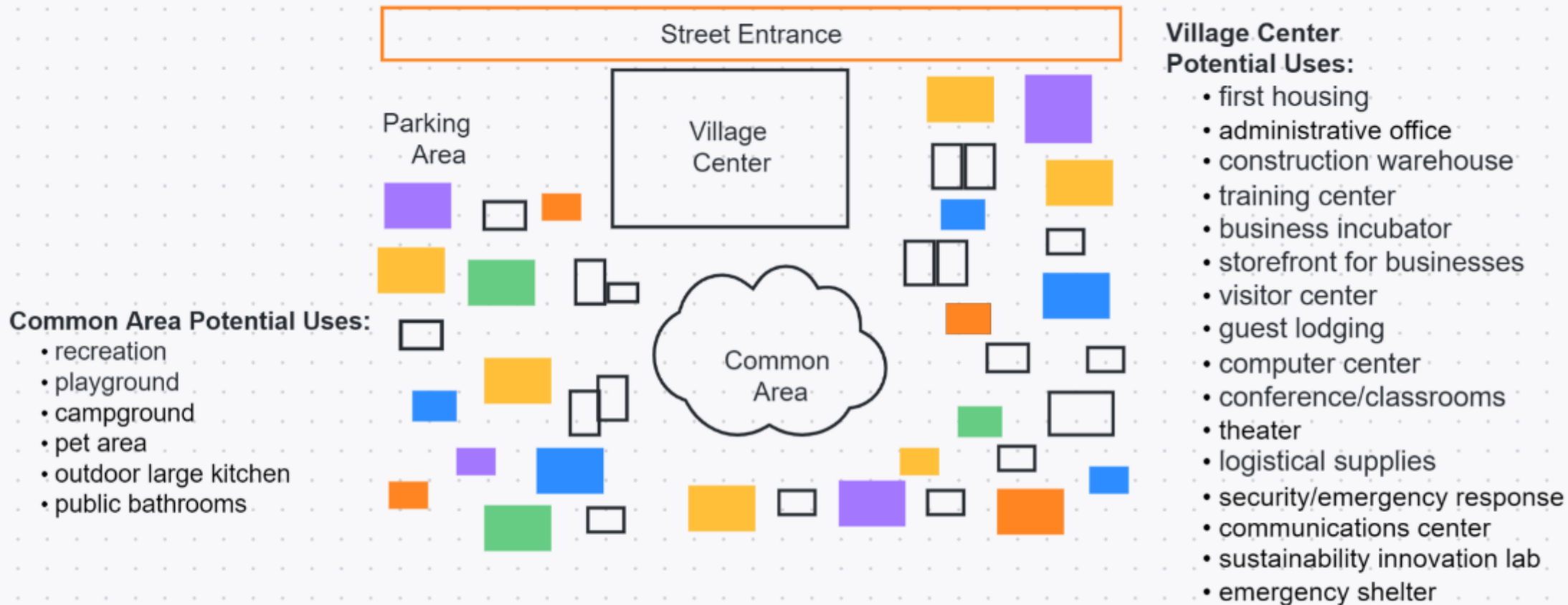


In Liberated Communities

- **Recycle destruction** in war-torn areas
- **Warm winter** for homes with **Rocket Mass Heating System**
- **Speed up recovery**: build with recycles, easy for anyone to do
- Build new businesses: **jobs & local economy growth**
- Grow green industries = **EU compliant & supported**
- Reduce reliance on massive infrastructure



Sample Village Layout

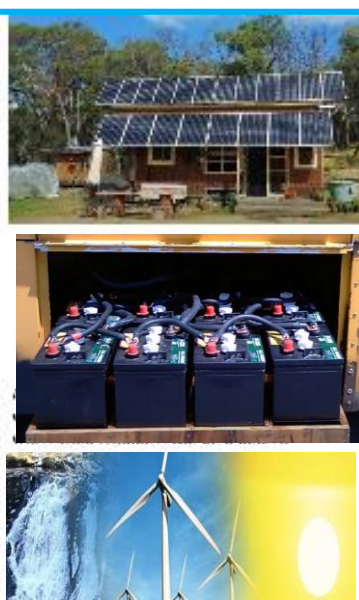


First phase could begin with a large building – like an abandoned factory. This could serve as the first housing and construction center. As individual tiny homes or renovated apartments in the building itself are developed, the original structure (or a portion of it) becomes the village center. Eventually the Village could have multiple community centers serving different purposes. Most of these would be for income-generating businesses to make the village financially self-sustaining.

Off-Grid Electricity

Researching and Developing Innovations

- Permaculture energy storage
- DIY battery systems
- passive solar
- Wind power
- Water wheel
- micro-hydro systems
- Earth Battery P-MFC
- Micro-CHP



Direct partnering with permaculture experts around the globe.

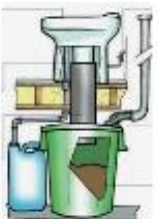
Possibilities for Self-Reliant Sustainability

Off-Grid Septic Systems

<https://esetio.com.au/blog/the-pros-and-cons-of-a-composting-toilet>
<https://off-grid-home.com/guide-to-off-grid-wastewater/>



Compost Toilet Designs



The Composting Toilet Materials list: Uses the topography on basic tank - 11kg sides

Glass-less Windows for Winter Warmth



Septic systems use a combination of proven technology and nature to treat household waste from kitchen sinks, showers, and bathrooms.

The septic system has two components:

- A septic tank is a tank, water-tight, concrete, fiberglass, or polyethylene container that separates solids and floatable matter, grease, and oils from organic matter. The effluent then is stratified with less. Pumps or gravity then move the effluent through sand, constructed wetlands, soil, or another medium to remove pathogens, nitrogen, and other contaminants. If it is positioned, the waste unless perforated pipes that slowly release the waste into the ground.
- A chamber, a covered, site low saturation (unsaturated) soil. The soil soaks, breaks then disperses the wastewater into the soil, which further filters it from harmful bacteria (bacteria destructor of human fecal contamination), nutrients, and viruses. It then becomes groundwater.

Urban Infrastructure INDEPENDENCE!

Training and experimenting in:

- Off-the-grid living
- Permaculture & sustainability
- minimalist lifestyle

Recycle destruction!

Our First Priority: Winter Heat

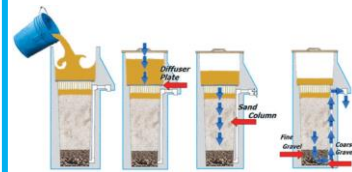
Work is currently underway to implement this personalized, off-grid solution in a liberated small town without power.

Developed material is now being circulated and is available on our website:

RoadMaptoLife.org

Spread the word!

Information Material on Off-Grid Heating Now Available in English & Ukrainian



Water Harvesting and Purification Systems



Off-Grid Heating & Cooking for homeowners or military on the move!

Use metal cans make great portable stoves!

Even use empty ammo cans! Video and plans © Justin Veas
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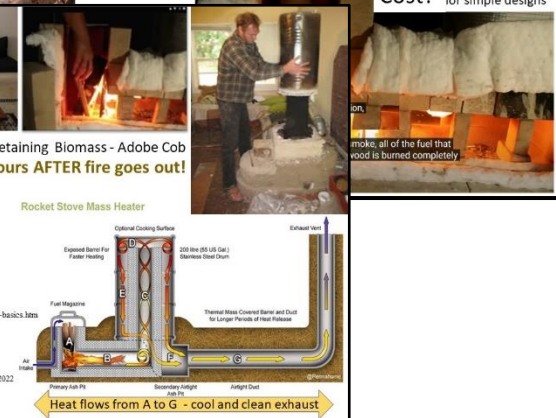
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Now in Europe!

ROMANIA: <https://shades.org/~vireclet/>
 KOSOVO: <https://peas.design/build-a-rocket-stove-mass-heater/>
 PORTUGAL: Training center!
<https://www.premachangepersonal.net/learn-with-us/courses/build-rocket-mass-heater-experiment-hall-2022>

The Best Book: <https://www.amazon.com/Rocket-Heater-Diapers-Guide-Step-Up/dp/0865718237>





Resilient Villages

**Resilience Begins with Each Citizen
Partnering & Communications:
Critical at All Levels, at All Times**

Who Builds Community Resilience? EVERYONE!

Beyond war:

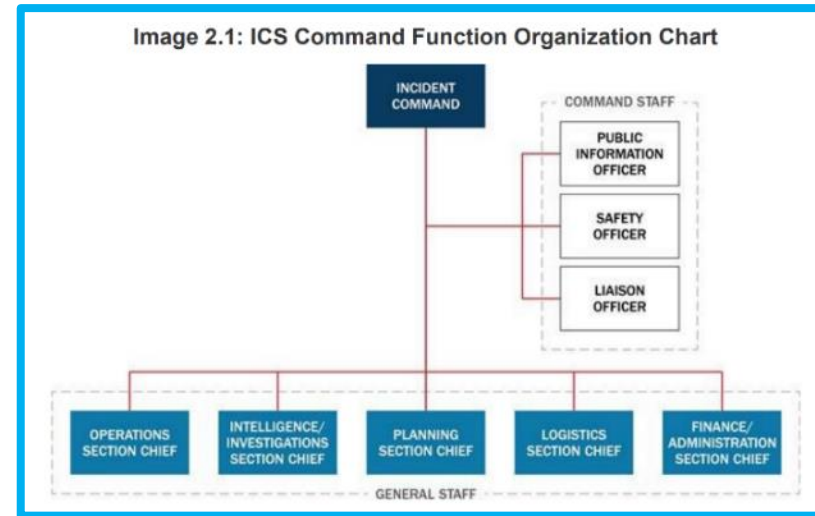
To respond to natural as well as man-made disasters Ukraine needs a flexible framework for civilian response that meshes at all levels:

- Civilians - often first on the scene
- Local, regional, state government
- CSOs and community entities

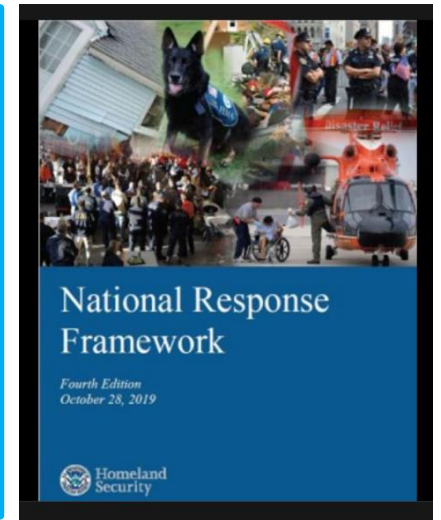
Pillars on a Strong Foundation

Examples from America's
Civilian Volunteer Force

- Situational awareness + continual vigilance: Detect changes & adapt before problems develop
- Community over individuality: Personal responsibility + cooperative effort, no one left behind
- Communication is key : **Communication** ↔ **Communication** All emergency responders interrelated
- Examples from America: CERT, CitizenCorps, VOAD, United Way, NGOs/CSOs at all levels of society



Emergencies, disasters, large events in America come under the Incident Command System (ICS) All major responder agencies know & work within this flexible structure. Much of this training is FREE online! Potential to access trainers, build networks.



Civilian Pillars for Disaster Response:

Country

Community

Citizenry

Responsive Government + Community Resilience + Pro-Active Citizens

Whole Community Approach

Examples from America's Federal Emergency Management Agency (FEMA)

Relationships make a community stronger, more resilient

Communities can become more resilient when people get involved in building capacity, planning for the unexpected. FEMA develops and provides trainings for volunteers & local organizations to support their community during emergencies.

Organizations Preparing for Emergency Needs

When a disaster stops operations at community-based organizations (CBOs) like food pantries, daycares, and non-profits, people who rely on them are impacted. [Organizations Preparing for Emergency Needs \(OPEN\)](#) training empowers CBOs to better prepare for incidents: 10 preparedness actions & guidance to develop disaster response plans.

You Are the Help Until Help Arrives

Life-threatening emergencies can happen fast. Emergency responders aren't always nearby. [You Are the Help Until Help Arrives](#) training teaches people how to save a life by taking simple actions immediately.



Community Lifelines

A CONSTRUCT FOR OBJECTIVES-BASED STABILIZATION EFFORTS

Partner to increase disaster preparedness and resilience

All of the partners within a community should engage in community preparedness including:

- government entities
- nongovernmental organizations
- faith-based organizations
- Schools
- nonprofit groups
- private sector entities
- grass roots level: individuals, families, local communities, and social networks.

Community Leaders

Community leaders from the private & civic sectors have a responsibility to participate in community preparedness:

- Participate on local collaborative planning councils to care for those they serve
- Identify & integrate resources into government plans
- Ensure facilities, staff, customers served are prepared, trained, and practiced in preparedness actions.

The Public

The public has a responsibility for preparedness. All community members should:

- Know about community alerts, evacuation routes, how to get critical information
- Take training in preparedness, first aid, response skills
- Practice skills and personal plans through periodic drills in multiple settings
- Network and be able to help others
- Participate in community feedback opportunities
- Report suspicious activity

Needed:

Emergency Responder Training at the Citizen Level



TR - begun by military veterans to use their skills to heal, not fight:



National VOAD is a coalition of 70+ national organizations (faith-based, community-based and other NGOs) plus 56 State/Territory VOADs, which represent Local/Regional VOADs and hundreds of other organizations throughout the country.



211 is a 24/7 phone number - a lifeline to anyone with personal needs. Operated by America's umbrella for all major nonprofits, 211 tracks most services available to people in need locally.

Examples from Volunteer Spirit In America and around the World

A small sample of the many nonprofits active in all areas of disaster response
The author worked with most of these featured.

Aga Khan Development Network



An avalanche occurred recently in Zingerya, a remote village in the Badakhshan province. In response, the Aga Khan Agency for Habitat has trained over 702 Community Emergency Response Teams and 187 Avalanche Preparedness Teams comprising over 19,000 volunteers in order to encourage villagers to be self-reliant and prepared.

About the Author and Potential Roles



Over the past 17 years, Leslie Wilson's careers, passion, and volunteer work have centered around emergency management, disaster response, and recovery. Over 6000 hours of field work began with the American Red Cross in 2005, soon becoming Disaster Response Coordinator in the Washington DC region. Later she worked as a reservist for the Federal Emergency Management Agency (FEMA) responding to many large-scale national disasters. She has volunteered with many CSOs for post-disaster house recovery and rebuilds, shelter work & management, even chaplain. For over a decade, Ms. Wilson has been primarily an unofficial spokesperson and liaison for rural interests in Tajikistan. A visionary with practical skills rooted in permaculture, forged in disaster response, and tempered by her emergency management background, Ms. Wilson's hope would be to remain in Ukraine to help make this plan a successful reality over the many years of recovery. Donating all her services, Ms. Wilson would like to serve as a *pro bono* consultant.

Potential roles:

- Planning, quality control, construction, liaison work
- Social media platform development
- Writing:
 - English translations & editing
 - Grant proposals, crowd sourcing
 - publications: travel, lifestyle, emergency management, permaculture, current events
- Teaching /facilitating training:
 - Offering free conversational English classes at the village open to the public
 - Volunteer development/management
 - Emergency management, permaculture, sustainable living, recycling, home education, writing/photography/computer skills

Email: LLWilsonServices@gmail.com
Phone: +380 99 669 02 98
WhatsApp, Telegram: +001 202 492 2658
Public Telegram Channel: [LLWilsonUkraine.t.me](https://t.me/LLWilsonUkraine)
LinkedIn: [linkedin.com/in/llwilsonservices](https://www.linkedin.com/in/llwilsonservices)
Website: RoadMapToLife.org

*CV, Photo Bio, Media Portfolio
available upon request*

Leslie L. Wilson bases her work out of Chernivtsi, Ukraine