

Prima Conferință: Evaluarea FESI 2014 - 2020 și perspective privind evaluarea în perioada 2021-2027. 10.062021

Evaluarea politicilor publice prin analiză spațială

Dr. Cristina LINCARU, FeRSA,

National Scientific Research Institute for Labour and Social Protection (INCSMPS, Bucharest, Romania)

ORCHID 0000-0001-6596-1820

Email: cristina.lincaru@yahoo.de

Fellowship represents a status within the RSA Regional Studies Association starting with 29.01.2020. RSA Fellows are individual members who have been permanent members for at least 5 years and who have also been defined as "active members".



Analiza spațială este un proces de modelare geografică a problemelor, obținere a rezultatelor prin prelucrarea computerului, explorați și examinați aceste rezultate.

<https://www.esri.com/arcgis-blog/products/product/analytics/how-to-perform-spatial-analysis/#:~:text=Spacial%20analysis%20is%20a%20process,explore%20and%20examine%20those%20results.&text=Several%20fundamental%20spatial%20analysis%20workflows,tools%2C%20and%20spatial%20problem%20solving.>

Categorii de analiză spațială

1. Înțelegând **unde**
2. Măsurarea **dimensiunii, formei și distribuției**
3. Determinarea modului în care sunt relaționate locurile
4. Găsirea celor mai bune locații și căi / traiectorii
5. Detectarea și cuantificarea tiparelor
6. Realizarea de predicții

Bennett, L. R., & Calkins, J. (2013). *The Language of Spatial Analysis*. 49.
<https://www.esri.com/content/dam/esrisites/sitecore-archive/Files/Pdfs/library/books/the-language-of-spatial-analysis.pdf>

Geoprocessing tools for spatial analysis

There are six types of spatial analysis processes used to answer questions. Although each one is different, they can be used together to solve problems. Many spatial problems will require the use of more than one type of spatial analysis process.

Spatial analysis process	Description	Examples
Proximity	View and analyze data based upon the distance between features.	<ul style="list-style-type: none">• How close are you to the airport?• Are there any roads that are within 1000 feet of this stream?• What is the nearest or farthest feature from this location?
Overlay	View and analyze features and attributes of overlapping layers.	<ul style="list-style-type: none">• Which parcels are on top of which soil type?• Which students are within the school attendance boundary?• What buildings are within a floodplain?
Network	View and analyze data based on a system of interconnected elements.	<ul style="list-style-type: none">• What is the best route to the nearest coffee shop?• What are the live traffic conditions like?• What are the service areas for your business locations?
Statistical	Quantify spatial distribution and relationships using numbers and statistics.	<ul style="list-style-type: none">• What is the distribution of graffiti within the county?• How does the distribution of senior citizens compare to that of children under 5 for the same set of census tracts?• What are the directional trends of vehicle accidents during the day, as compared to those at night?
3D	View and analyze data in a three-dimensional (3D) context.	<ul style="list-style-type: none">• How will buildings cast shadows?• What is the viewable area from a fire tower?• How much land will be underwater from damming a river?
Temporal	View and analyze data based upon a date or time field to see patterns over time.	<ul style="list-style-type: none">• How does ocean temperature change over time?• How did the number of fatalities increase over the last six months?• Where are the space-time crime hot spots within the city?

Ce noi modalități de utilizare a instrumentelor și abordărilor (de exemplu, noi modalități de colectare, gestionare și înțelegere a datelor) există care ne pot ajuta să răspundem provocărilor complexe cu care ne confruntăm?

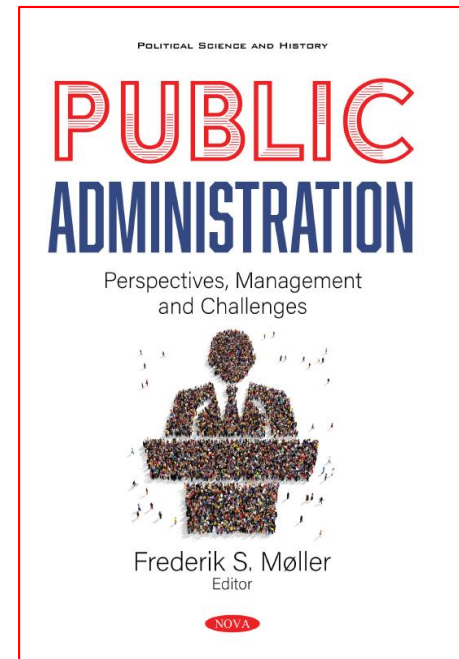
Lincaru, C., Pîrciog, S., Grigorescu, A., & Stroe, C. (2020). Chapter 4. **The Flood Risk Information Used in Spatial Policy-Based Design for Socio-Economic Integration of the Most Vulnerable Persons from Rural Agglomerations. Study Case**

Romania. In *Public Administration: Perspectives, Management and Challenges*, Frederik S. Møller (Editor). Niva Science Publisher. <https://novapublishers.com/shop/public-administration-perspectives-management-and-challenges/>

Utilizarea Instrumentelor GIS - soft Arc Gis

Big data

prezentarea rezultatelor sub formă de hărți



Cum pot fi utilizate noile date disponibile (de exemplu, big data; date despre context; date calitative, etc.)?

Modalități noi:

Combinare date vechi cu date noi

Integrarea unor hărți spatio-temporale istorice – harta istorică ai inundațiilor pe o perioadă de 500 de ani
-Big data & date in timp real!

+

Grupuri țintă ale unor politici publice ([Legea Asistentei Sociale L292/2011 – combaterea sărăciei și a excluziunii sociale](#)) : ex Beneficiarii de VMG 06.2018 – [Legea 416/2001 modific Art. 5 IV L250/2013 – măsuri de activare SPO](#).

Nota: Obligațiile beneficiarilor de VMG au fost restrânse începând din 22.10.2018 prin L192/2018. VMG a fost înlocuit de Venimtul Minim de Incluziune 1. 04.2021 L196/2016

Metoda:

The **map overlay** initiated by McHarg (1971) “is a procedure for combining the attributes of intersecting features that are represented in two or more georegistered data layers” (DiBiase and Dutton 2009).

McHarg, I.L. 1971. *Design with Nature*. Natural History Press.

DiBiase, David, and John A Dutton 2009. ‘5. *Map Overlay Concept | the Nature of Geographic Information.*’ PennState College of Earth and Mineral Sciences, Department of Geography. 2009. https://www.eeducation.psu.edu/natureofgeoinfo/c9_p6.html

*Care este valoarea adăugată a acestor **date noi** ce pot fi acum accesate/colectate în cadrul diferitelor exerciții de evaluare?*

Limbaj universal

Interoperabile

Nemuritoare

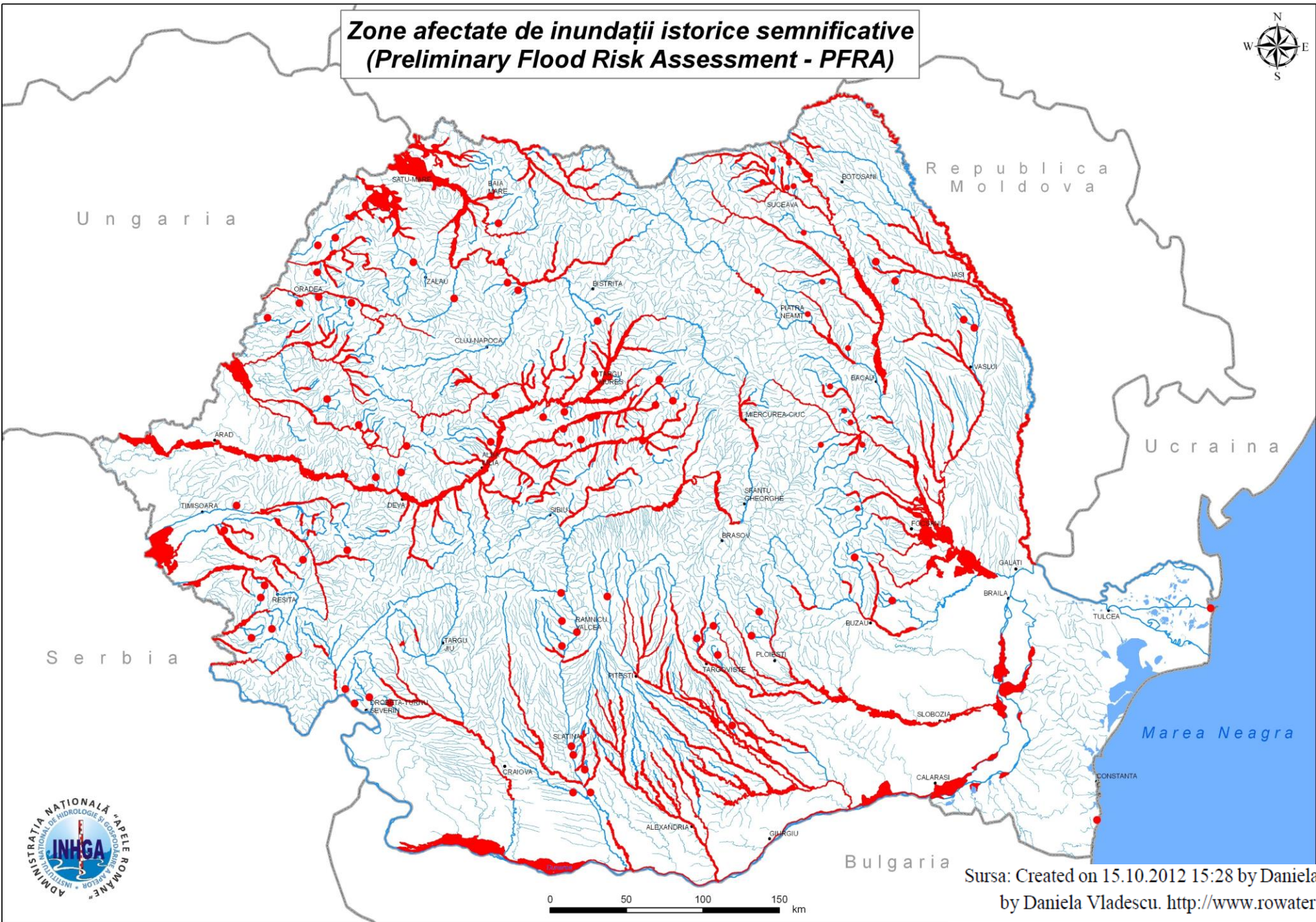
Trans sectoriale / Trans domenii

Adiționabile – analizei complexe spațio-temporale,

Pot oferi soluții în timp real la probleme complexe

Necesită cooperare – interinstituțională / statală de la scală locală la scală globală

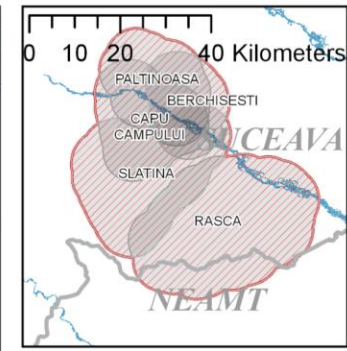
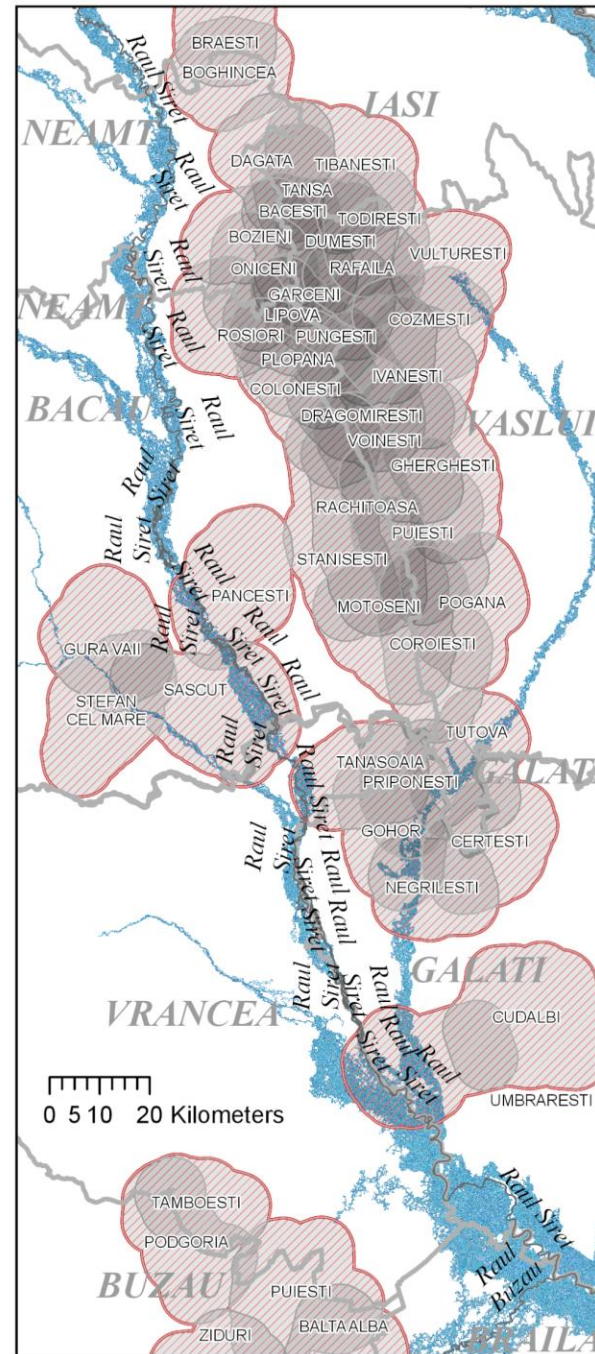
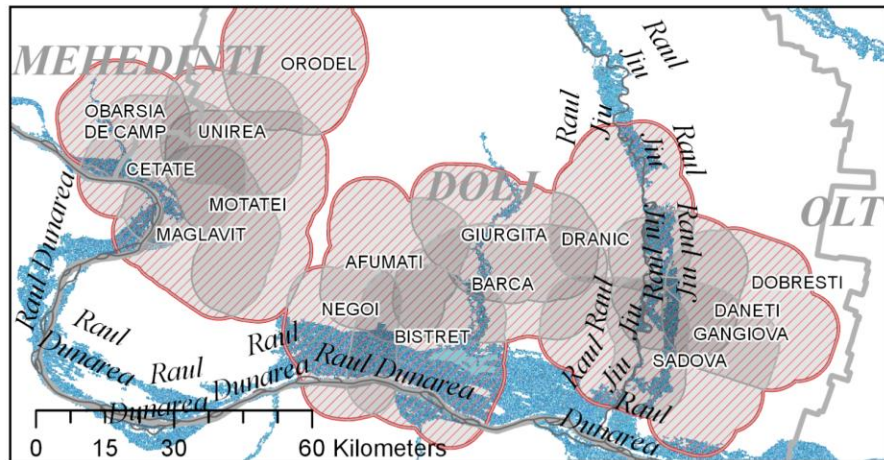
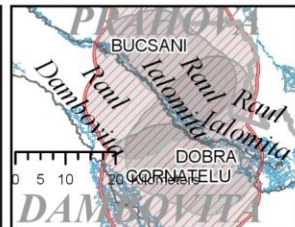
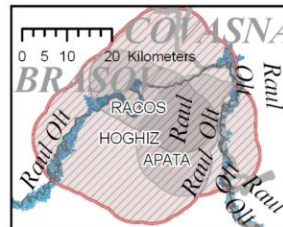
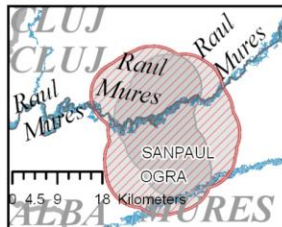
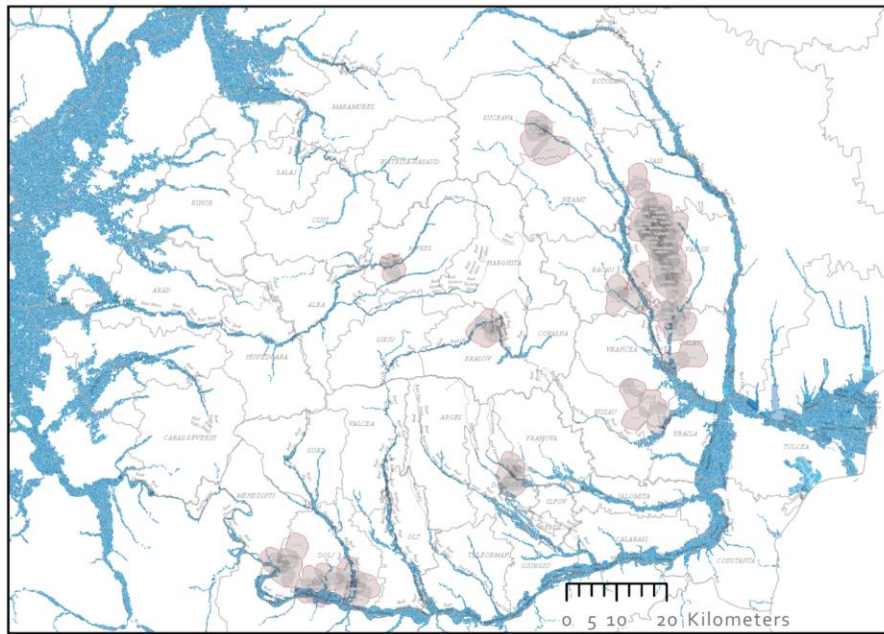
Zone afectate de inundații istorice semnificative (Preliminary Flood Risk Assessment - PFRA)



Sursa: Created on 15.10.2012 15:28 by Daniela Vladescu, Updated on 15.10.2012 15:28 by Daniela Vladescu. <http://www.rowater.ro/EPRI>, Maps with flood risk areas.



the historic flood risk assessment illustrated in the flood hazard map for Europe, 500-year return period, based on European Commission, Joint Research Centre (JRC), but not an official one.



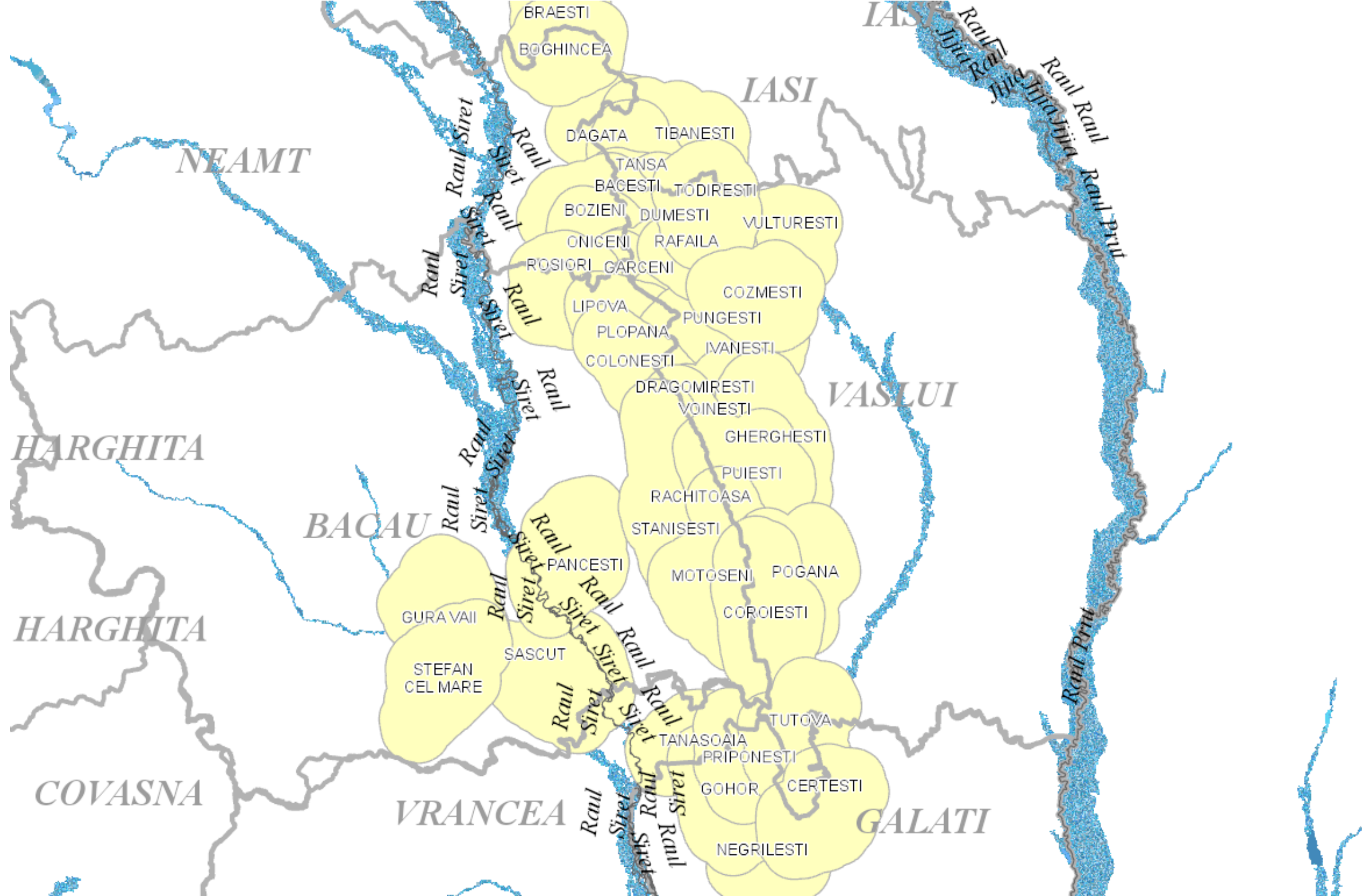
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 ▨ HH_VMG_rural_0_01_06_2018_Bu1
floodMapEU_rp500yClip
Value
 ■ 30
 ■ 0,001

Minimum income beneficiaries agglomeration locations and their neighborhood with historical flood area in Romania



0 5 10 20 Kilometers

National Geographic, Esri, Garmin, HERE, UNEP-WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO, NOAA, increment P Corp.



Va multumesc!