Mapping Crimes Against Humanity In North Korea With FOSSD

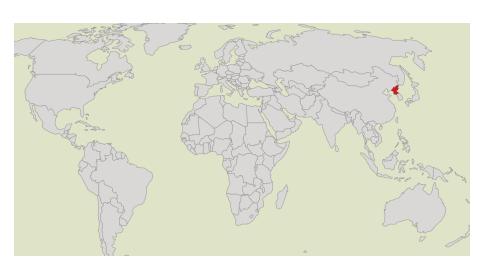
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Transitional Justice Working Group

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Type of Government

• not communist (anymore)

totalitarian / monarchy / personality cult



nationalist, race-based ideology

Songbun Class System

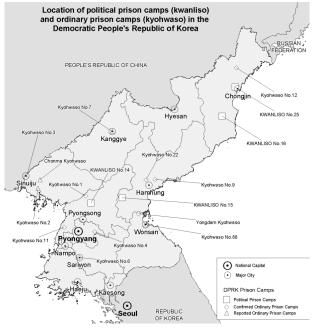
Your songbun determines where you live and what you can do.

- loyal
- wavering
- hostile

Control Through Fear

- secret police & citizen informants
- public executions
- political prison camps (kwalliso), aka concentration camps / gulags
 - no due process
 - guilt by association for up to three generations

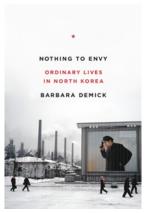




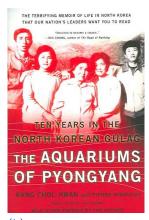
Civil Society

- no organizations may exist without permission of the state
- the great famine in 1990s

Recommended Reading



(a) Nothing to Envy: Ordinary Lives in North Korea, by Barbara Demick



(b) The Aquariums of Pyongyang: Ten Years in the North Korean Gulag, by Kang Chol-hwan and Pierre Rigoulot

UN Commission of Inquiry (COI)



UN Commission of Inquiry (COI)

no right to:

- life
- food

no freedom of:

- thought / expression
- association
- religion
- movement / residence
- information (no internet)

UN Commission of Inquiry (COI)

Crimes Against Humanity

- extermination
- murder
- enslavement
- torture
- imprisonment
- rape
- forced abortions
- persecution
- deliberate starvation
- and enforced disappearances

have been committed "pursuant to policies established at the highest level of the state"

Transitional Justice Working Group



Transitional Justice

UN definition: "the full range of processes and mechanisms associated with a society's attempt to come to terms with a legacy of large scale past abuses, in order to ensure accountability, serve justice and achieve reconciliation."

- Truth and reconciliation commissions
- Punishment of perpetrators (trials)
- Reparations
- Memorials and education
- Democratic institution-building
- Looks forward and back
- Victim-centered

Sites We Focus On & Methodology

3 Main Site Types

- Where the victims of the regime were killed
- Where their bodies were buried or otherwise disposed of
- Where documents are kept that are related to these human rights crimes.

Satellite imagery via Google Earth

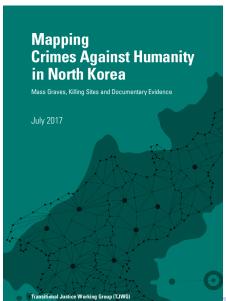


Objectives of Mapping Project

- Document North Korean regime's human rights abuse together with specific locations it took place
- Support ongoing advocacy efforts
 - increase the amount and types of documentation available
 - provide a foundation for increased international pressure on the regime
- Gather, analyze and provide data to support future accountability measures (trials) against the leadership of the North Korean government
- Develop maps that can:
 - aid future exhumation of victims' remains
 - help victims' families discover the whereabouts of their loved ones
 - assist in future truth-seeking and memorialization activities
- Apply emerging remote sensing (RS) technologies to complement existing human rights documentation efforts
 - body farm research, LiDAR, drones



First Report



Media Coverage



(c) Ars Technica

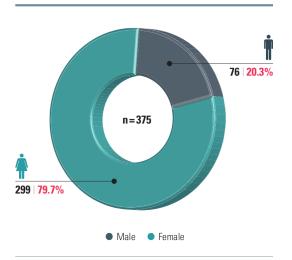


(e) Washington Post

The New Hork Times

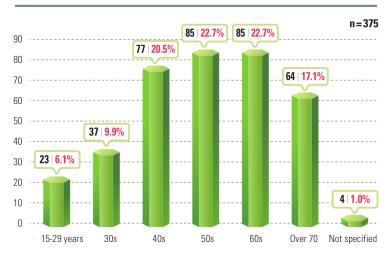
Interviewee Demographics

Chart 2: Participant Gender Breakdown



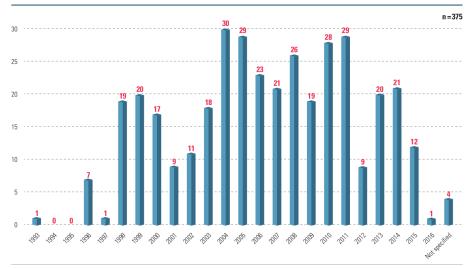
Interviewee Demographics

Chart 3: Participant Age Breakdown



Interviewee Demographics

Chart 4: Year of Last Defection from North Korea

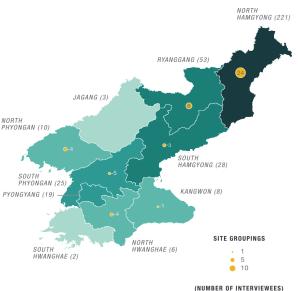


Main Findings

Table 3: Sensitive Sites by Category and Type

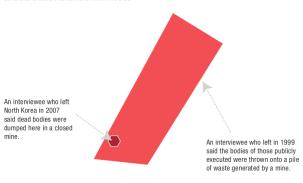
Category	Sensitive Site Type		Pre-consolidation Number
В	Witnessed burial site		7
В	Suspected burial site		35
В	Burial site within community cemetery		2
В	Cemetery for prisoners of war		1
В	Storage place for dead bodies		2
В	Location of uncovered, unburied, or exposed bodies		2
В	Place for disposal of bodies by cremation		3
K	Killing site – shooting (if n killed < 10)		283
K	Killing site — mass shooting (if n ≥ 10)		7
K	Killing site – hanging		40
K	Killing site – burning		1
K	Killing site — arbitrary killing		2
Т	Public trial only site		8
Total			393
B — Dead body sites/sightin		52	
	К	 Killing sites 	333
	Т	- Trial only sites	8

Map 1: Suspected Body Site Groupings by Province Where did interviewees live — and what did they report?



Map 2: Suspected Burial Site Grouping Near Killing Sites

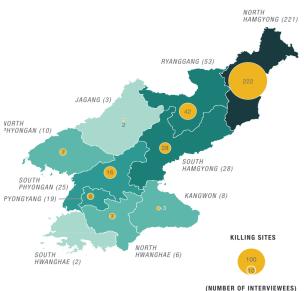
The polygon and the point within it were given as the locations of burial sites by two different interviewees. During site analysis we consolidated them into a suspected burial site grouping. Within four kilometers of this grouping there are over four dozen suspected killing sites, the closest of which are seen clustered below the polygon. The interviewee likely did not mean that the whole area depicted by the polygon is used as a burial site, but that the burial site is located somewhere within this area.





Map 4: Suspected Killing Sites by Province

Where did interviewees live — and what did they report?



NOMBER OF INTERVIEWEES)

10 25

Map 6: Hyesan City: Suspected Sites with Documentary Evidence



Chart 7: Necessity of Exhumation of Burial Sites Containing Victims of Human Rights Abuses

Is exhumation of burial sites containing victims of human rights abuses necessary after transition?

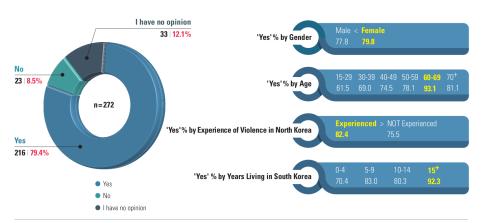
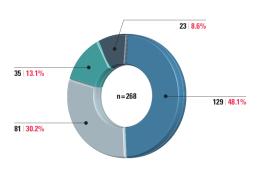


Chart 10: How Leaders Should Prioritise Their Efforts After a Transition in North Korea Regarding Burial Sites

How should leaders prioritise their efforts after a transition in North Korea?





Exhumation should occur at the same time as construction of economic infrastructure - the two do not conflict.



Exhumation of burial sites must take place before the construction of economic infrastructure in those areas.



I have no opinion



Construction of economic infrastructure should be prioritised over exhumation of burial sites

Chart 11: Should Perpetrators of Human Rights Abuses Receive Prosecution and Punishment in Court

Is it important for perpetrators of human rights abuses to receive prosecution and punishment in court?

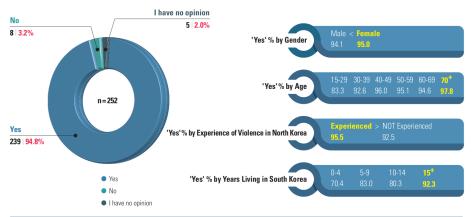
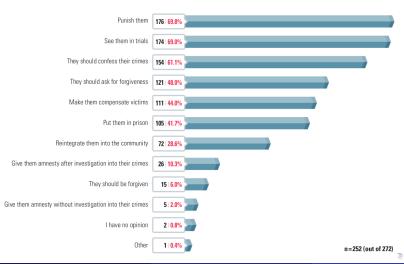


Chart 12: Participant Views on the Fate of Those Who Committed Violent Human Rights Abuses in North Korea

What would you like to see happen to those who committed violent human rights abuses in North Korea? (Multiple choice)



Challenges

- a start-up NGO with a tiny budget
- must protect sensitive data
- alone in my organization and field

Red Star OS 3.0



FOSSD for Mapping

Software

- QGIS
- PostGIS
- PostgreSQL

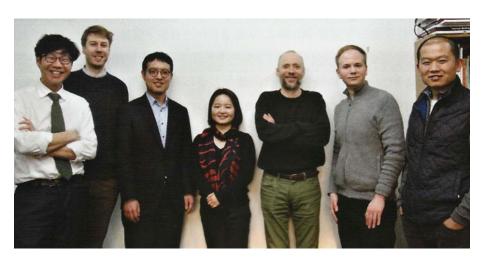
Data

- OpenStreetMap
- GADM (Global Administrative Areas)

Challenges in Korea to using FOSS

- turning on Korean input
- fonts
- banking & online transactions
- Hangul word processor / .HWP files

Community - Shared Values



Recommended Reading and Sources

- Nothing to Envy: Ordinary Lives in North Korea, by Barbara Demick: https://en.wikipedia.org/wiki/Nothing_to_Envy
- The Aquariums of Pyongyang: Ten Years in the North Korean Gulag, by Kang Chol-hwan and Pierre Rigoulot: https://en.wikipedia.org/wiki/The Aquariums of Pyongyang
- Blog of a recent, high-level defector: https://thaeyongho.com/en/
- DPRK COI report summary of main findings (37 pages): https://www.ohchr.org/Documents/HRBodies/HRCouncil/CoIDPRK/ Report/A.HRC.25.63.doc
- DPRK COI report page: https://www.ohchr.org/en/hrbodies/hrc/coidprk/pages/ reportofthecommissionofinquirydprk.aspx
- DPRK COI page: https://www.ohchr.org/en/hrbodies/hrc/coidprk/pages/ commissioninquiryonhrindprk.aspx

Recommended Reading and Sources (cont.)

- https://arstechnica.com/information-technology/2017/07/activists-use-google-earth-images-to-map-n-korean-crimes-against-humanity/
- https://www.nytimes.com/2017/07/19/world/asia/north-korea-executionsites.html
- https://www.washingtonpost.com/world/asia_pacific/where-are-the-bodies-buried-in-north-korea-investigators-try-to-prepare-for-future-trials/2017/07/18/48349113-7976-463a-a569-466ad84657c0_story.html
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- $\bullet \ \, \text{https://www.northkoreatech.org/} \\ 2014/12/30/\text{red-star-3-0-desktop-finally-becomes-public/} \\$
- https://www.forbes.com/sites/elaineramirez/2016/11/30/south-koreas-online-banking-system-is-stuck-in-1996/

Image Sources

- Photo of man cleaning Kim Jong II portrait: http://www.hrnkinsider.org/2018/04/kim-family-regime-portraits.html
- Satellite photo of Camp 16: https://www.hrnk.org/uploads/pdfs/ASA_HRNK_Camp16_v8_fullres _FINAL_12_15_15.pdf
- Prison camp system map: https://www.ohchr.org/Documents/HRBodies/HRCouncil/CoIDPRK/ Report/A.HRC.25.63.doc
- Red Star OS: https://en.wikipedia.org/wiki/Red_Star_OS
- TJWG's mapping report available at: https://en.tjwg.org