







Overall objective and implementation modalities

Objective: Create preconditions for transparent functioning of land markets to ...

- ...enhance efficiency and sustainability of resource use
- ...provide a basis for rural investment and growth by small and medium farms & rural SMEs
- ...counter rural depopulation and impoverishment by catalyzing private investment & diversification

Supported by EU (2nd phase) implemented in close collaboration with

- Ukrainian institutions (MAPF, SGC, MoJ, NAIS, MoEDT, FLA, MDT, MInfra, Ukrstats)
- EU-supported projects (IPRSA, U-LEAD, PRAVO) and other partners

Modalities of implementation

- Technical assistance only, no Hardware (extra EU procurement); no Government work
- Studies, Monitoring Piloting and Impact evaluation of new approaches

Link to WB support

- EU supported TF for Partial Credit Guarantee (PCG) facility; P4R restructuring
- Potential scaling up of farmer support programs
- Land markets & local planning important for reconstruction

Agreed goals

- Legal basis for land market established & implemented with progress monitored
- Agrarian registry (AR) used for State Support (SS), leverages banks, e-hub for farmers
- SGC reformed towards a service organization implemented
- Land registration & transfer simplified, holes for raiders blocked, role for private sector
- Cadaster & registry fully interoperable & reasonably complete
- Local Gov'ts have capacity & data to develop & enforce plans;

 | land revenue by 25%
- Landowners aware of legal framework & incidence of land disputes monitored
- Procedures to monitor land governance established & operational

Land laws adopted in 2020/1 w. WB/EU/US support

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Anti-raider law (340)
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Land turnover law (552)

Local Planning (711 – DL 2280) – need to maintain against challenges

NSDI (554 – DL 2370)

State support (985 – DL 3295)

State Geocadaster (SGC) Reform (1423 – DL 2194)

Mandatory e-auction of public land (1444 – DL 2195)

Partial Credit Guarantee (PCG) Facility (3205 – DL 1865)

Progress w. CMU resolutions (status Jan 26, 2023)

| Law | Total # needed | Adopted | Draft public | Drafting Started | Not started | Responsible |
|-------------------------|-------------------|---------|-----------------|---------------------|-------------|-------------------|
| 1.Anti-raider (340) | 5 | 5 | 0 | 0 | 0 | MoJ; MAPF |
| 2. Turnover law (552) | 4 | 4 | 0 | 0 | 0 | MinEco, MoJ |
| 3. Planning (711/2280) | 10 | 9 | 1 | 0 | 0 | MinInfra, MinEco, |
| 4.NSDI (554/2370) | 3 | 3 | 0 | 0 | 0 | MinEco, MAPF |
| 5. S support (985/3295) | 6 | 5 | 0 | 1 | 0 | MinEco (5) |
| 6. SGC ref (1423/2194) | 23 | 7 | 4 | 0 | 12 | ME, MAPF, Mincult |
| 7. e-auct.(1444/2195) | 1 | 1 | 0 | 0 | 0 | MinEco |
| 8. PCG (3205-2/1865) | 9 | 7 | 0 | 2 | 0 | CMU, NBU |
| All 8 laws | 61 | 41 | 5 | 2 | 12 | |

Progress June-December 2022

- 1. Supported establishment of State Agrarian Registry (SAR) & disbursement of \$50 mn PSG funds
- 2. Monitored SAR implementation as a basis for more in-depth impact evaluation
- 3. Identified banks' needs to use SAR for rural credit & PCG; fed into regulation amendments
- 4. Launched small farm survey & analyzed initial results to assess impact of war on Ukrainian agric.
- 5. Conducted assessment of SGC/DZK HW/SW as basis for institutional transformation
- 6. Initiated dialogue with NACP on implementation plan for land chapter of Anti-Corruption law
- 7. Supported establishment of legal & regulatory basis for land relations monitoring
- 8. Used imagery to identify damage field; combined w. crop maps to assess war impact on area cultiv.
- 9. Disseminated analysis of impact of e-auctions on local land lease revenue
- 10. Supported MAPF communication and outreach

SAR established; used PSG to pilot payment

Activities

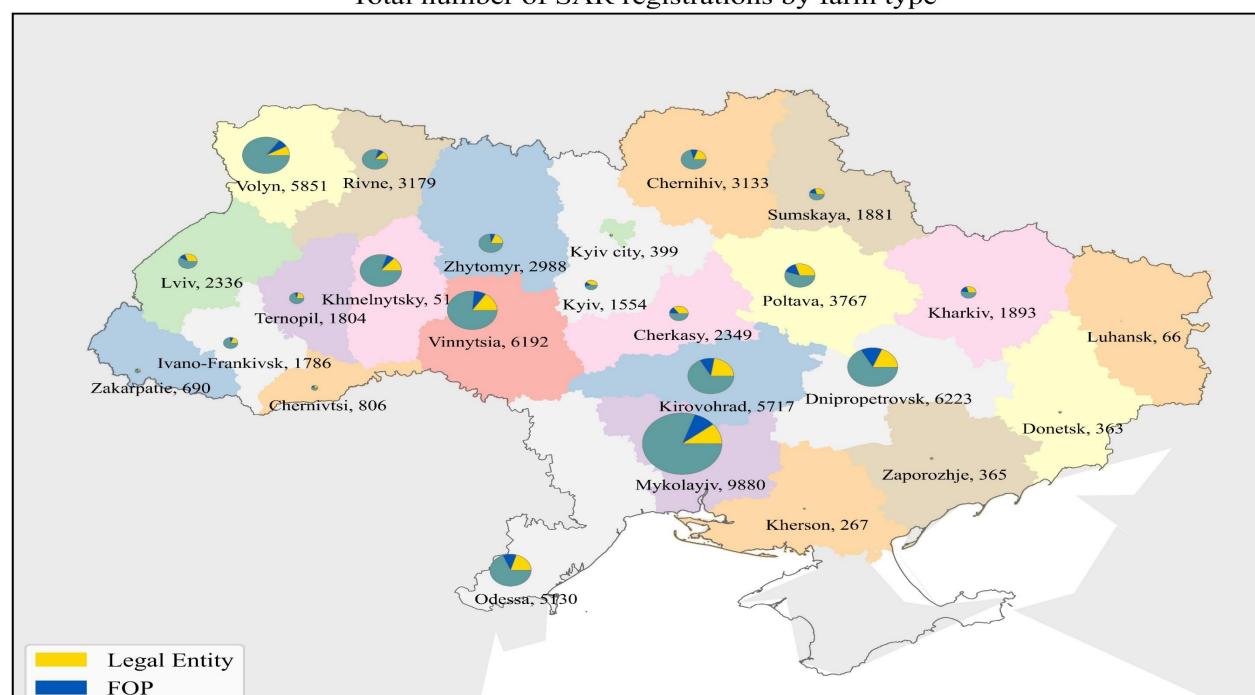
- Supported passage of regulations to operationalize SAR & pilot EU-supported PSG
- With MAPF and IPRSA supported software development & deployment; server; training FSF
- Helped MAPF set up call center (incl. FLA hotline for legal support)
- Helped prepare/disseminate materials for SAR and PSG users & general public
- Supported nation-wide SAR launch (August) and PSG (September-November)
- Built capacity in MAPF on reporting and using daily monitoring data

Results

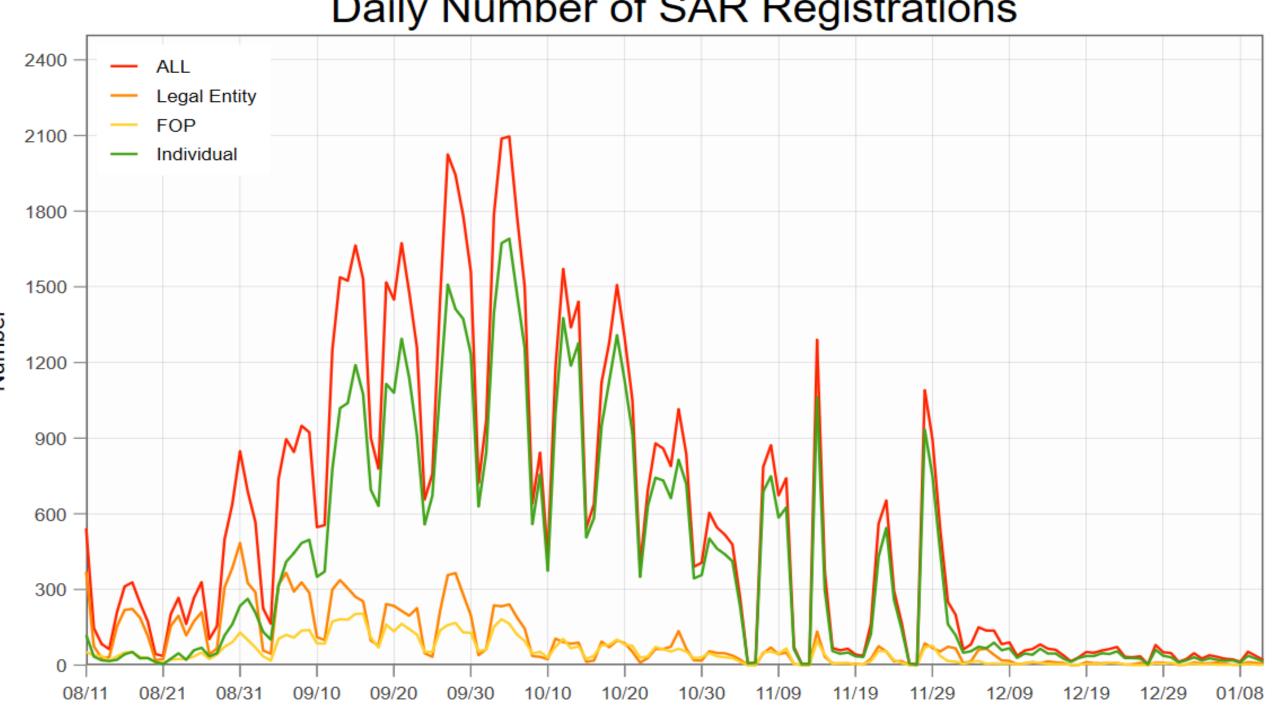
- More than 80,000 SAR sign-ups; 50 mn € to > 33,000 producers (plus pipeline of > 33,000 for 34 mn)
- Use of SAR by other donors/FAO to distribute farmer support
- Action plan for SW updates & regulatory changes building on pilot lessons agreed w. MAPF & EU

- Institutionalize SAR by ensuring its use for all types of state support & PCG
- Support use of SAR as digital marketplace for farmers to improve rural factor market functioning

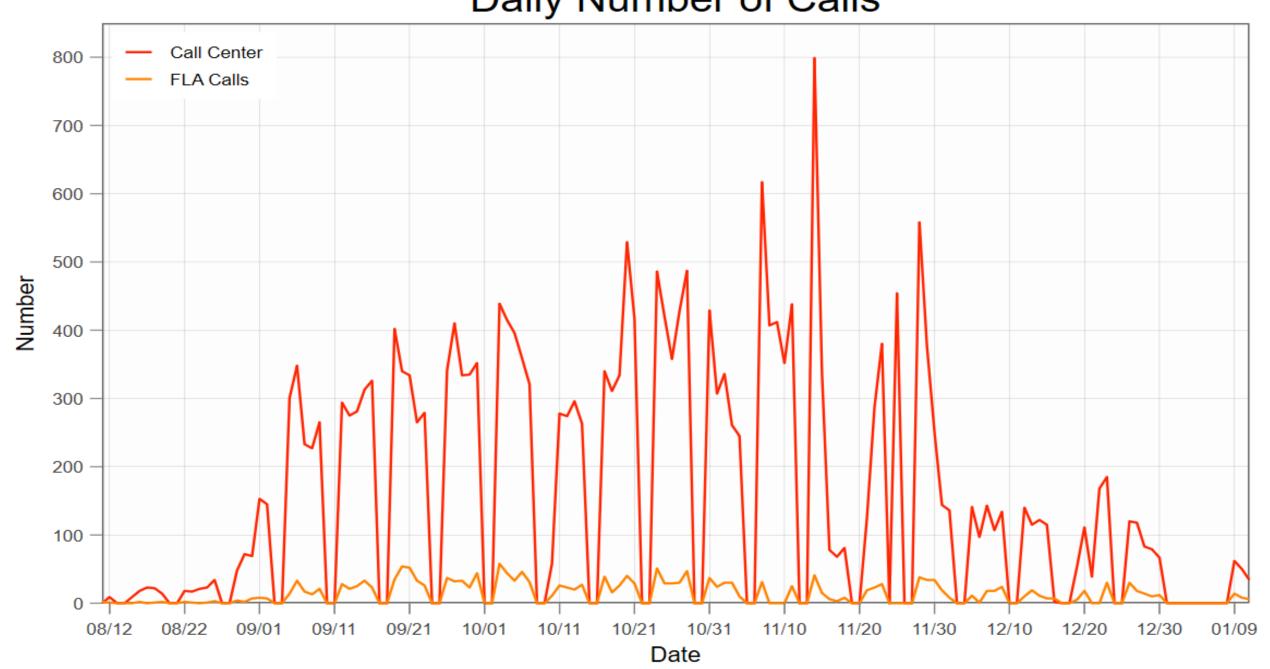
Total number of SAR registrations by farm type



Daily Number of SAR Registrations



Daily Number of Calls



No. of approved PSG applications

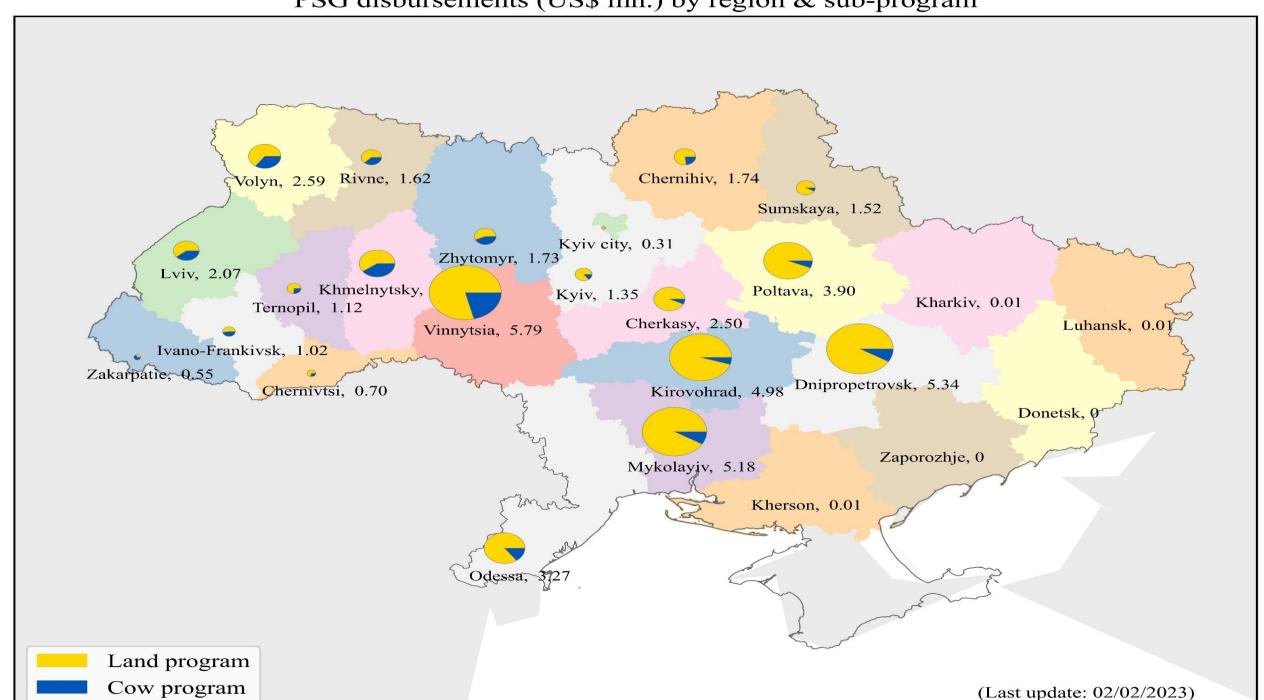
| Region Total Amount | | Amount | By type | | | | |
|---------------------|--------|-----------|---------|-------|--------|--|--|
| | | (US\$mn.) | L.Ent | FOP | Ind. | | |
| Central | 15,805 | 27.112 | 2,593 | 1,639 | 11,573 | | |
| East | 12 | 0.023 | 2 | 4 | 6 | | |
| North | 2,994 | 5.624 | 606 | 486 | 1,902 | | |
| South | 6,739 | 8.457 | 561 | 590 | 5,588 | | |
| West | 7,995 | 8.963 | 1,157 | 634 | 6,204 | | |
| Total | 33,545 | 50.178 | 4,919 | 3,353 | 25,273 | | |
| Eligible pipeline | 33,818 | 34.00 | | | | | |

Approved PSG applications by program/farm size

| Region | | Land prog | gram (ha) | | Cow program (# cows) | | | | | |
|---------|--------------|-----------|-----------|------|----------------------|-------|-------|-----|--|--|
| | Total | 0-50 | 50-100 | >100 | Total | 0-20 | 20-50 | >50 | | |
| Central | 10,356 | 8,378 | 1,537 | 441 | 5,449 | 5,239 | 119 | 91 | | |
| East | 12 | 10 | 2 | 0 | - | - | - | - | | |
| North | 2,147 | 1,712 | 329 | 106 | 847 | 779 | 24 | 44 | | |
| South | 5,672 | 5,158 | 396 | 118 | 1,067 | 987 | 49 | 31 | | |
| West | 4,695 | 4,248 | 352 | 95 | 3,300 | 2,967 | 175 | 158 | | |
| Total | 22,882 | 19,506 | 2,616 | 760 | 10,663 | 9,972 | 367 | 324 | | |

Daily Number of Approved PSG Applications 3000 Total 2800 Land Program 2600 Cow Program 2400 2200 2000 1800 Number 1600 1400 1200 1000 800 600 400 200 09/05 09/15 09/25 10/05 10/15 10/25 11/04 11/14 11/24 12/04 12/14 12/24 01/03 Date

PSG disbursements (US\$ mn.) by region & sub-program



SAR automation & monitoring; impact evaluation

Activities

- Piloted methodology to check parcel cultivation status (w. JRC)
- Daily reporting and data analysis for SAR; creation of server for short feedback requests
- Developed methodology to evaluate PSG impact using satellite imagery (complementing survey)

Results

- Demonstrated viability of checking farmer eligibility based on parcel level cultivation status vira RS
- Showed viability of evaluation methodology using remote sensing can be used for any gov't or donor-supported program implemented using SAR

- Automate check of cultivation status using vector data (e.g. WFS) to be in line with EU best practice
- Get farmer feedback on 'yellow' cases to improve small crop identification based on machine learning
- Discuss with Ukrstats on improving timeliness & resolution of national crop statistics using RS
- Explore making current & historical cultivation status available to banks/insurance providers

Scoped options for banks' routine SAR use

Activities

- Meetings with banks on requirements to use SAR for expanding access to finance
- Meetings with PCG team & MAPF on how to use SAR as basis for PCG
- Supported establishment of WG with MoJ to discuss registry data access

Results

- Identified & agreed w. MAPF amendments needed to allow bank access to fiscal/statistical records
- Drafting of amendments initiated
- Technical specifications for software (incl. APIs) developed & tendered
- Amendments to make SAR mandatory for state support drafted

- Agree with MAPF on most expeditious way to quickly pass amendments
- Establish APIs to fiscal service & statistics, train banks & implement/evaluate pilot
- Re-engage with MoJ on options to expeditiously register unregistered parcels

Small & medium farm survey

Activities

- Developed sample stratified by size & PSG participation status using SAR as frame
- Developed questionnaire & administered via phone; target 2,500 farms

Results

- Data for 2,200 farms collected (Oct 22-Jan 23); initial analysis ongoing
- Significant war-induced reductions in profitability due to lower output prices & higher cost of inputs
- Social support held up & actually increased in wartime
- Credit and working capital constraints severe; key area for potential gov't support
- High demand for land purchase/lease if conditions return to normal shows positive long-term outlook

- Conduct satisfaction poll on FLA requests & sign-up/PSG procedures; regional input prices
- Implement follow-up survey in spring 2023 to assess spring crop/PSG effect/scope for diversification
- Feed into damage assessment update & analyze productivity effects based on regional input prices

Preliminary evidence from farm survey: Welfare

| Farm surv | ey | | | | | | | |
|--|---|-------------------------|-------|-------|-------|--------|-------|-------|
| • 2,500 fa | ms; national coverage; phone | | Total | Centr | East | North | South | West |
| SAR asSize stra | a frame .ta: <50; 50-120; 120-500; >500 ha | Ladder ctry 21 (1-10) | 7.13 | 7.31 | 6.93 | 6.89 | 7.12 | 6.81 |
| | s preliminary | Ladder ctry now (1-10) | 3.20 | 3.23 | 2.59 | 3.03 | 3.29 | 3.38 |
| Non-res | oonse an issue | Ladder pers. 21 (1-10) | 7.21 | 7.34 | 6.91 | 7.30 | 7.13 | 6.85 |
| | drop in perspectives | Ladder pers. now (1-10) | 3.65 | 3.69 | 3.19 | 3.33 | 3.76 | 3.88 |
| | Close to 4 points in ladder | Got soc. assistance 21 | 0.31 | 0.29 | 0.26 | 0.34 | 0.34 | 0.30 |
| | d to worse in E followed by C rop personal; more optimistic | If yes, US\$/pc | 326 | 339 | 281 | 307 | 340 | 286 |
| W now of | offers best perspective (from worst) | Got soc. assistance 22 | 0.38 | 0.33 | 0.40 | 0.42 | 0.48 | 0.38 |
| but cou | ntry continued to function | If yes, US\$/pc | 309 | 332 | 262 | 291 | 305 | 288 |
| | ssistance coverage ↑ 31% to 38% | Can get inf. support? | 0.46 | 0.48 | 0.44 | 0.44 | 0.44 | 0.47 |
| | d by 43% of farms < 50 ha | max. (US\$) | 7,267 | 7,734 | 9,052 | 10,944 | 4,689 | 5,054 |
| | income ↓ 10% only (30% in E) networks accessible for many | Non-ag inc. 21 (\$/pc) | 2,230 | 2,387 | 2,406 | 2,326 | 1,922 | 2,015 |
| | • | Non-ag inc. 22 (\$/pc) | 2,005 | 2,096 | 1,739 | 2,297 | 1,762 | 1,875 |
| | ge to land/structures rated in E & N | War damage land/struct. | 0.07 | 0.03 | 0.24 | 0.21 | 0.07 | 0.00 |
| | th data from imagery | No. obs. | 945 | 437 | 46 | 139 | 212 | 111 |

Evidence from farm survey: Production

| | | Zarra sira | | h. | |
|------------------------|--------|------------|----------|---------|---------|
| | | arm size | group in | na | |
| | Total | < 50 | 50-120 | 120-500 | > 500 |
| Crop area 21 (ha) | 172.43 | 19.41 | 74.21 | 199.22 | 913.32 |
| Crop area 22 (ha) | 151.90 | 19.65 | 75.36 | 195.65 | 828.11 |
| Cereal area 21 (ha) | 84.20 | 12.27 | 36.34 | 95.75 | 396.28 |
| Cereal area 22 (ha) | 73.47 | 12.28 | 36.56 | 91.85 | 322.18 |
| C. yield 21 (t/ha) | 3.90 | 3.21 | 3.99 | 4.16 | 4.50 |
| C. yield 21 (t/ha) | 3.17 | 2.65 | 3.26 | 3.26 | 3.80 |
| Sold wheat in 2021 | 0.90 | 0.91 | 0.89 | 0.89 | 0.90 |
| Sold wheat in 2021 | 0.43 | 0.32 | 0.45 | 0.47 | 0.56 |
| Wheat price '21 (\$/t) | 166.99 | 142.69 | 163.72 | 173.80 | 195.57 |
| Wheat price '22 (\$/t) | 127.06 | 113.93 | 123.90 | 124.44 | 154.72 |
| Out. value 21 (\$/ha) | 873.64 | 709.18 | 914.33 | 899.11 | 1069.62 |
| Out. value 22 (\$/ha) | 594.10 | 460.14 | 636.45 | 609.67 | 763.12 |

Crop area reduction modest

- 12% reduction in total/cereal area
- Zero for farms < 500 ha

Physical output down 20%

- Similar across farm sizes & crops
- Reinforces pre-existing yield gaps across farm sizes Crop expansion/contraction & yield dynamics

Market access a key constraint

- Market partic. dropped almost 50%
- Size differentiated (59 vs. 34 points)
- Price drop by 20%
- Reinforces price differences across farm size groups

Raises interesting questions

- How do these translate into profit?
- What causes differential effects?
- Bottlenecks to better performance?

Evidence from farm survey: Perspectives

| La | Land market | | | | | |
|----|----------------------------------|--|--|--|--|--|
| • | Agricultural fundamentals strong | | | | | |
| • | Only 4% ready to sell land (well | | | | | |
| | above market price) | | | | | |

- > 86% in > 50 ha want to buy land
- WTP in line with pre-war prices
- Strong demand for land to lease

Credit markets

- Zero long-term credit
- Access extremely size-biased
- Not surprising without land market
- Ex-post credit subsidy mechanism:
 Goes to large farms w. credit access
- Large unsatisfied credit demand
- Leveling playing field could help

Other issues

- Most important short-term concern is input access; TA on how to adjust
- Scope for equipment rental?

| | Fa | arm size | group in | ha | |
|--------------------------|--------|----------|----------|---------|---------|
| | Total | < 50 | 50-120 | 120-500 | > 500 |
| Willing to sell land | 0.04 | 0.07 | 0.03 | 0.03 | 0.00 |
| Price WTS (\$/ha) | 2,784 | 3,732 | 1,771 | 1,493 | |
| Wants to buy land | 0.76 | 0.53 | 0.86 | 0.82 | 0.92 |
| Price WTP (\$/ha) | 1,315 | 1,270 | 1,307 | 1,356 | 1,373 |
| Lease paid (\$/ha) | 80.90 | 35.50 | 99.89 | 100.85 | 115.10 |
| Want to lease more? | 0.82 | 0.69 | 0.90 | 0.84 | 0.93 |
| Ever received credit | 0.53 | 0.35 | 0.51 | 0.70 | 0.87 |
| if y, year since last | 3.69 | 5.54 | 3.94 | 3.09 | 1.93 |
| size (US\$) | 44,211 | 6,090 | 15,078 | 48,685 | 153,999 |
| interest (%) | 7.66 | 10.30 | 8.23 | 6.92 | 5.41 |
| used for WC | 0.90 | 0.77 | 0.90 | 0.94 | 0.99 |
| Would want to borrow? | 0.77 | 0.60 | 0.85 | 0.85 | 0.91 |
| Would benefit from TA | 0.88 | 0.89 | 0.91 | 0.88 | 0.91 |
| Govt to reg. input price | 0.70 | 0.74 | 0.69 | 0.67 | 0.62 |
| Farm equipment (\$/ha) | 494 | 478 | 648 | 647 | 347 |

DZK/SGC HW/SW assessment

Activities

- Restarted technical assessment of DZK/SGC hardware (HW), software (SW) and IT systems
- Identified key vulnerabilities & performance constraints
- Report analyzing software & security vulnerabilities to be completed shortly

Results

- Input into EU tender for critical hardware (€ 180K) to ensure system continuity
- Initial assessment of security issues & system vulnerabilities based on draft report

Next steps

Elaborate roadmap for institutional reform to guide follow-up support & TA

Land in Anti-Corruption law implementation plan (ACLIP)

Background

- Anti-Corruption Policy (ACP) law (#2322-IX) adopted June 20, 2022
- Sections on land build on white paper elaborated by MAPF/KSE with project support earlier
- Provides legal backing for land strategy CMU resolution on action plan overdue

Activities

- Input into discussion of draft ACLIP that was sent for CMU approval
- Dialogue with NACP: Collaboration to strengthen capacity on land
- Agreed to provide external monitoring to ACP implementation

- Technical dialogue on monitoring framework (incl. intermediate milestones) once plan approved
- Public event with NACP to highlight importance of land in anti-corruption effort in March

Land relations/governance monitoring

Activities

- Land market monitoring mandated by law 1423; manual monitoring operational since July 2021
- Land market restarted in June 2022
- Provided input to in Law 2698 (DL 7636) to broaden monitoring beyond land market only

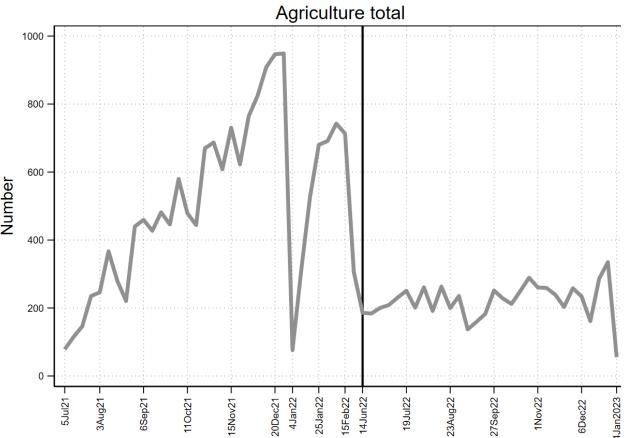
Issues to be addressed

- CMU regulation for land relations monitoring to be adopted
- MoJ to instruct registrars about mandatory price reporting as basis for mortgage market
- Basic monitoring software to be finalized, tested, and installed on server
- APIs for other institutions to be put in place gradually
- Training of target groups & publicity for data to improve land & credit market functioning
- Identify data gaps/problems and take measures to address them sequentially
- Expand to urban land to establish basis for mass valuation pilot (as per ACLIP)
- Explore options for digitizing BTI documents & link to cadaster as basis of reconstruction support

Avg. # of daily agric. & residential land sales 2021/2

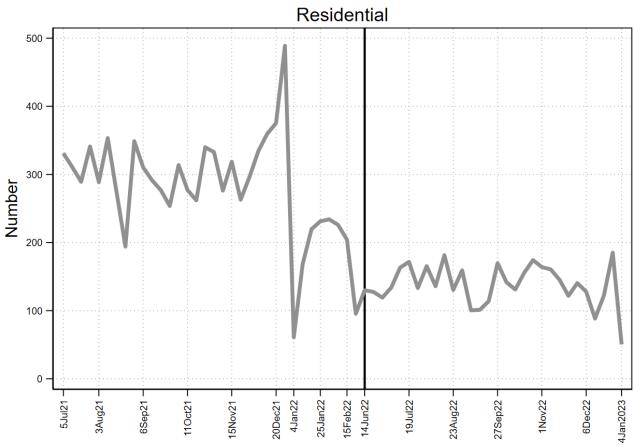
Agriculture

- Steep increase to ≈ 600 pre-war
- Pre year-end jump to almost 1,000
- Drop to about 200 after war



Residential (urban)

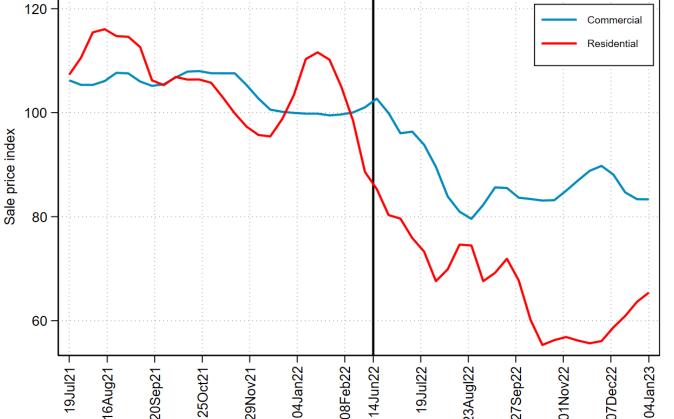
- Steady at ≈ 300 pre-war; pre end-year blip
- Drop to ≈ 150 post-war



Land sales prices

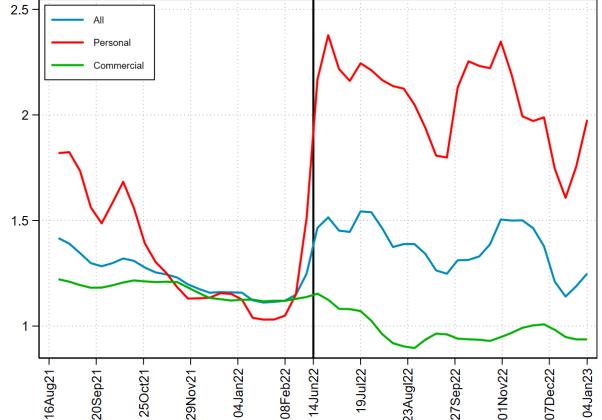
Commercial agricultural vs. residential (index)

- Residential halved after war: Worse economic prospects
- Agric. commercial: Stabilized at 80-90% pre-war level: Fundamentals remain good



Agric. pers. vs. commercial farming (\$000/ha)

- Personal farming land > \$2,000/ha (composition effect
- Commercial farming land < \$1,000/ha
- Further analysis warranted



Land transactions in 2022

| | Jan | Feb | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------------------|--------|
| Agricultural land | | | | | | | | | |
| No of sales | 12,190 | 16,794 | 4,261 | 6,978 | 7,740 | 6,104 | 7,511 | 7,695 | 8,174 |
| Area sold (ha) | 29,661 | 43,437 | 6,857 | 10,966 | 12,289 | 12,167 | 13,400 | 15,059 | 16,760 |
| Price (US\$/ha) | 1,114 | 1,124 | 1,601 | 1,528 | 1,375 | 1,214 | 1,367 | 1,524 | 1,164 |
| No of leases | 75 | 67 | 131 | 4,809 | 3,264 | 20 | 1,837 | 127 | 38 |
| Area leased (ha) | 294 | 284 | 288 | 9,116 | 6,487 | 102 | 3,863 | 341 | 195 |
| Price (US\$/ha*a) | 63 | 46 | 53 | 84 | 68 | 54 | 68 | 33 | 53 |
| No emp. Leases | 70 | 50 | 25 | 104 | 60 | 39 | 66 | 29 | 22 |
| No of mortgages | 109 | 91 | 35 | 8 | 18 | 17 | 31 | 32 | 59 |
| Resid. (urban) land | | | | | | | | | |
| No of sales | 5,371 | 5,237 | 2,901 | 4,652 | 5,117 | 4,066 | 4,703 | 4,728 | 4,163 |
| Area sold (ha) | 654 | 647 | 369 | 596 | 668 | 537 | 597 | 679 | 549 |
| Price (US\$/ha) | 33,807 | 29,915 | 24,807 | 22,408 | 21,612 | 20,898 | 17,202 | 16,918 | 17,792 |
| No of leases | 5 | 14 | 8 | 304 | 132 | 6 | 118 | 21 | 12 |
| Price (US\$/ha*a) | 7,332 | 27,149 | 27,147 | 13,806 | 7,905 | 9,941 | 3.786 | 12,886 | 21,880 |
| No of mortgages | 275 | 328 | 64 | 132 | 152 | 187 | | reasury UBRD · IDA | 211 |

Land transactions in 2021 & before vs during war

| | Jul | Aug | Sep | Oct | Nov | Dec | Before | During | Ratio |
|-------------------|--------|--------|--------|--------|--------|--------|--------|---------|----------|
| Agricultural land | | _ | | | | | | | |
| No of sales | 5,041 | 9,934 | 14,523 | 17,054 | 21,159 | 28,448 | 15,643 | 6,923 | 0.443 |
| Area sold (ha) | 5,922 | 18,303 | 32,763 | 41,514 | 52,194 | 71,229 | 36,878 | 12,499 | 0.339 |
| Price (US\$/ha) | 4,146 | 1,493 | 1,311 | 1,309 | 1,233 | 1,165 | 1,228 | 1,369 | 1.115 |
| No of leases | 13,830 | 10,143 | 3,191 | 983 | 498 | 4,596 | 4,173 | 1,461 | 0.350 |
| Area lease (ha) | 34,852 | 26,884 | 7,801 | 2,261 | 1,370 | 11,364 | 10,639 | 2,913 | 0.274 |
| Price (US\$/ha*a) | 70 | 76 | 56 | 64 | 76 | 82 | 73 | 77 | 1.055 |
| No emp. Leases | 458 | 325 | 364 | 128 | 133 | 269 | | | |
| No of mortgages | | | | 19 | 144 | 145 | | | |
| Resid. urban land | | | | | | | | | |
| No of sales | 10,258 | 9,196 | 9,157 | 9,365 | 9,462 | 12,506 | 8,494 | 4,228 | 0.498 |
| Area sold (ha) | 1,206 | 1,089 | 1,141 | 1,344 | 1,188 | 1,603 | 1,109 | 571 | 0.515 |
| Price (US\$/ha) | 33,071 | 34,187 | 32,536 | 31,771 | 30,250 | 29,309 | 31,676 | 20,033 | 0.632 |
| No of leases | 619 | 364 | 122 | 47 | 36 | 140 | 168 | 86 | 0.512 |
| Price (US\$/ha*a) | 7,009 | 8,427 | 6,756 | 18,551 | 10,825 | 7,139 | 7,869 | 9,737 | 1.237 |
| No of mortgages | | | | 140 | 364 | 514 | | THE WOI | RLD BANK |

Crop & field damage monitoring

Activities

- Crop monitoring for 2022 by KPI & JRC; data publicly available on geoserver
- Assessment presented to MAPF, other policy makers and donors
- Continuous assessment of war-induced damage to agricultural fields based on satellite imagery
- Informal WG w MAPF, JRC, KPI & EU established to institutionalize

Results

- Assessment of war impact on 2022 winter crop area completed & <u>published</u>
- Draft paper on summer crop area & yield w. JRC under preparation
- Initial assessment of 2023 winter crop area (as of end 2022) completed

- Improve model for smallholder crops through additional training data
- Collect ground-truth data & assessment of winter crops; link to PSG evaluation
- Potential link to de-mining via SAR
- Explore war impact on protected areas & help identify strategies for rehabilitation in future

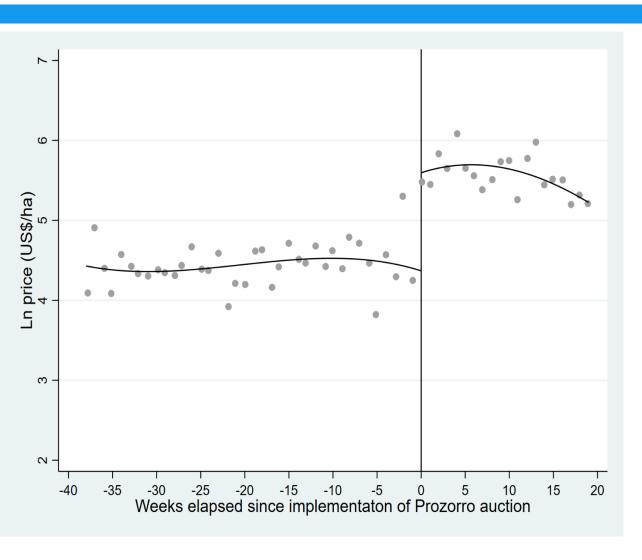
Winter crop area sown for 2023 season

| | | 2019 | 2020 | 2021 | 2022 | 2023 | 2019-22 | Difference |
|--------------|-------|--------|--------|--------|--------|--------|---------|------------|
| Total | | 838.0 | 556.0 | 711.3 | 717.9 | 507.8 | 705.8 | -28.05 |
| Field damage | d Yes | 1975.6 | 2338.2 | 1904.4 | 1082.3 | 1333.3 | 1825.1 | -26.95 |
| in 2022 | No | 799.0 | 494.9 | 670.4 | 705.4 | 479.5 | 667.5 | -28.15 |

Most field damages seem transitory (link to mining at disaggregated level still to be explored) RS data to help validate & improve MAPF survey on spring season planting intentions



Impact of e-auctions – results (see paper)



| T | · · | | • | • | 4 • |
|---------------------|-----|--------|-------|-----|-------------|
| Determinants | ΛŤ | IPSCP. | nrice | ın | e-alletions |
| Determinants | UI. | lcasc | price | 111 | c-auctions |

| Prozorro auction | 0.931*** |
|---------------------|-----------|
| | (0.111) |
| SETAM auction | -0.207*** |
| | (0.0416) |
| SGC offline auction | -0.381*** |
| | (0.0352) |
| Normative value | 0.594*** |
| | (0.0213) |
| No. obs. | 20,688 |
| \mathbb{R}^2 | 0.296 |

Sample 1: All auctions since 2015

- Prozorro e-auction increased price by 93%
- SETAM *reduced price* by 21% & SGC org. by 38% Sample 2: & 2021/22 only
- Doubling of prices as soon as Prozorro starts

Implication: Reform was very effective; vindicates reinstatement of e-auctions under martial law on Oct 19, 2022



Support to MAPF communication and outreach

Activities

- Supported MAPF information & communication campaign for launch/implementation of SAR & PSG (press releases, SAR website w. instructional videos, social media; 10,000 leaflets and 2,700 posters)
- Support to building capacity in MAPF for organizing 8 trainings, press-events, 7 public events (TV broadcast, webinars; prepare high-level public event on SAR results)
- Produce video with testimonial from farmers having received PSG support
- Extensive training of staff from Ministry & FAO on use of SAR for program implementation

Results

- Successful outreach on SAR and PSG to over 1,000 OTGs and farmers
- Op-Eds on crop damage assessments; e-auctions
- Broad dissemination of analysis on crop damage (≈800 downloads) and e-auctions (≈ 450)

- Training of banks, USAID, PCG staff etc.
- Targeted outreach to lagging OTGs to teach them how to build on SAR

Priority activities for coming 6 months I

Ensure automated land governance monitoring

- Support passage of substantive resolution (in line with ACLIP)
- Develop SW/APIs & web-based interface; implement to produce routine reports (incl. on prices, land-related court cases, mortgages)
- Explore link to damage assessment & reconstruction-related programs for urban land

SGC transformation

- Review & discuss technical assessment report
- Agree on TA needs & implementation

Support implementation & external monitoring of anti-corruption plan land part

- Identify & address NACP capacity needs
- Define outcome indicators drawing on automated monitoring & agree on reporting framework
- Assess need for technical/IT support in specific areas

Priority activities for coming 6 months II

Ensure readiness of SAR for use by banks & for all types of state support

- Adoption of regulatory framework; technical support to MAPF
- Adjustment of software, training and dissemination

Evaluate results PSG & other programs; draw implications for reconstruction

- Remote sensing of crop conditions for universe of program participants
- KIMS survey round II; targeted short surveys of specific sub-populations (incl. FLA callers)

Support design & evaluation of PCG & other instruments

- Instruments & matching formulas/conditions for PCG & complementary tools to support diversification
- Design implementation strategy w. private sector participation & evaluate



Thank you!

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