

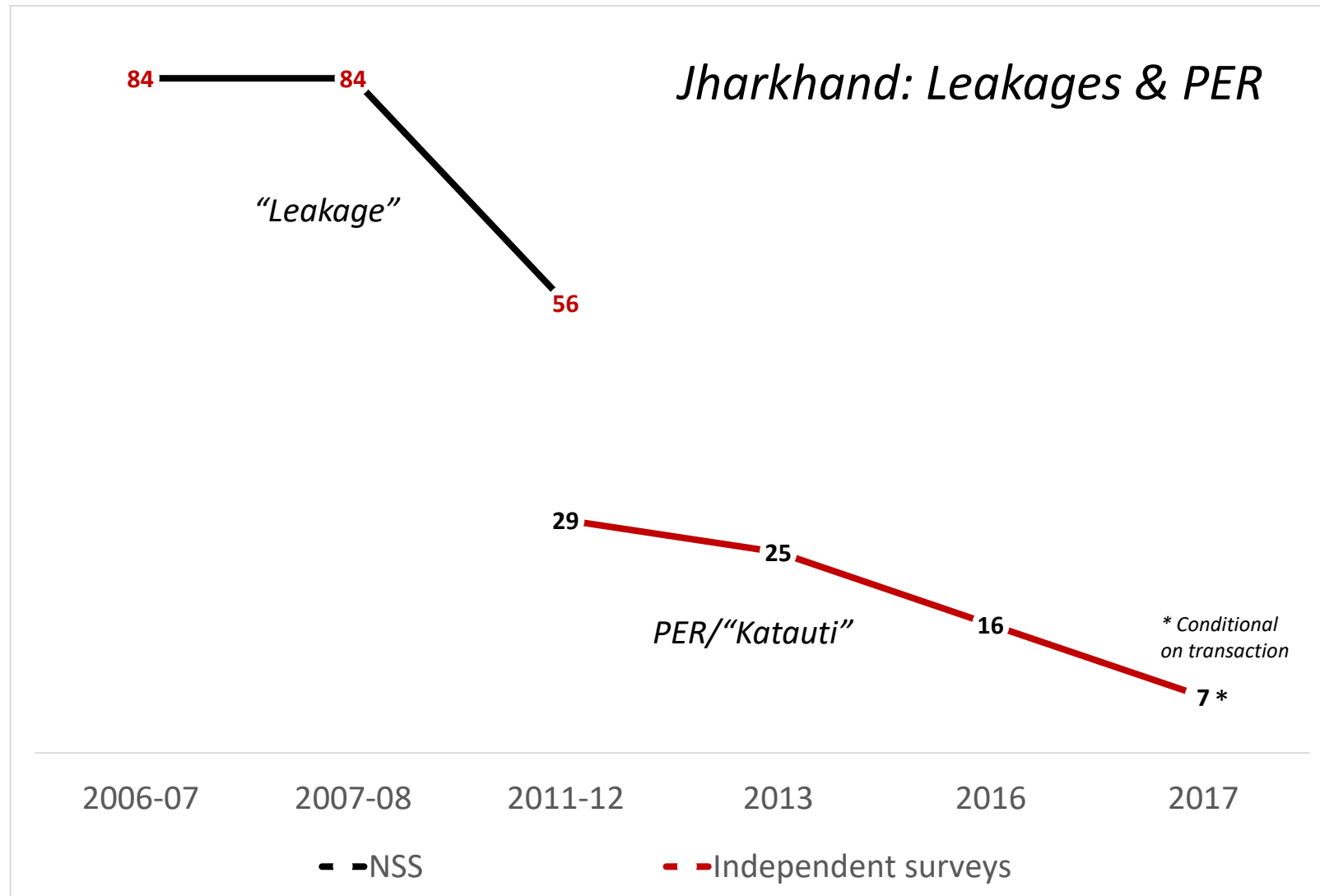
Aadhaar and Food Security: Pain without Gain

Jean Drèze, Nazar Khalid, Reetika Khera, Anmol Somanchi

Introduction

- NFSA 2013 – subsidized food grains for ‘eligible’ households under a *rights-based framework*.
 - ‘Priority’- 5 kg per-capita
 - Antyodaya – 35 kg irrespective of family size
- Carried out via fair price shops of the Public Distribution System (PDS).
- ‘Leakages’ from PDS have been bone of contention.
 - It is in this context that Aadhaar-based biometric authentication (ABBA) introduced by Jharkhand, Rajasthan, Andhra, Telangana etc.

PDS reforms pre-date Aadhaar by a decade



Demand-side factors:

- Higher subsidy
- Increased coverage
- Diversified commodities

Supply-side factors:

- Computerization
- De-privatization
- Fixed schedule
- 'Door-step' delivery
- Awareness - simplified entitlements

Sources of corruption in the PDS

Identity fraud

Duplicate

Ghosts

Quantity fraud

Underselling

Skipping Months

Eligibility fraud

Govt employee gets rations

Owner of 4-wheel vehicle gets rations

Overcharging

Grains, sugar and kerosene

Not return change

Quality of Grains

Replace with lower quality

Aadhaar: Little scope, exaggerated hope

Identity fraud

Quantity fraud

Eligibility fraud

Overcharging

Quality of Grains

Duplicate

Underselling

Govt employee gets rations

Grains, sugar and kerosene

Replace with lower quality

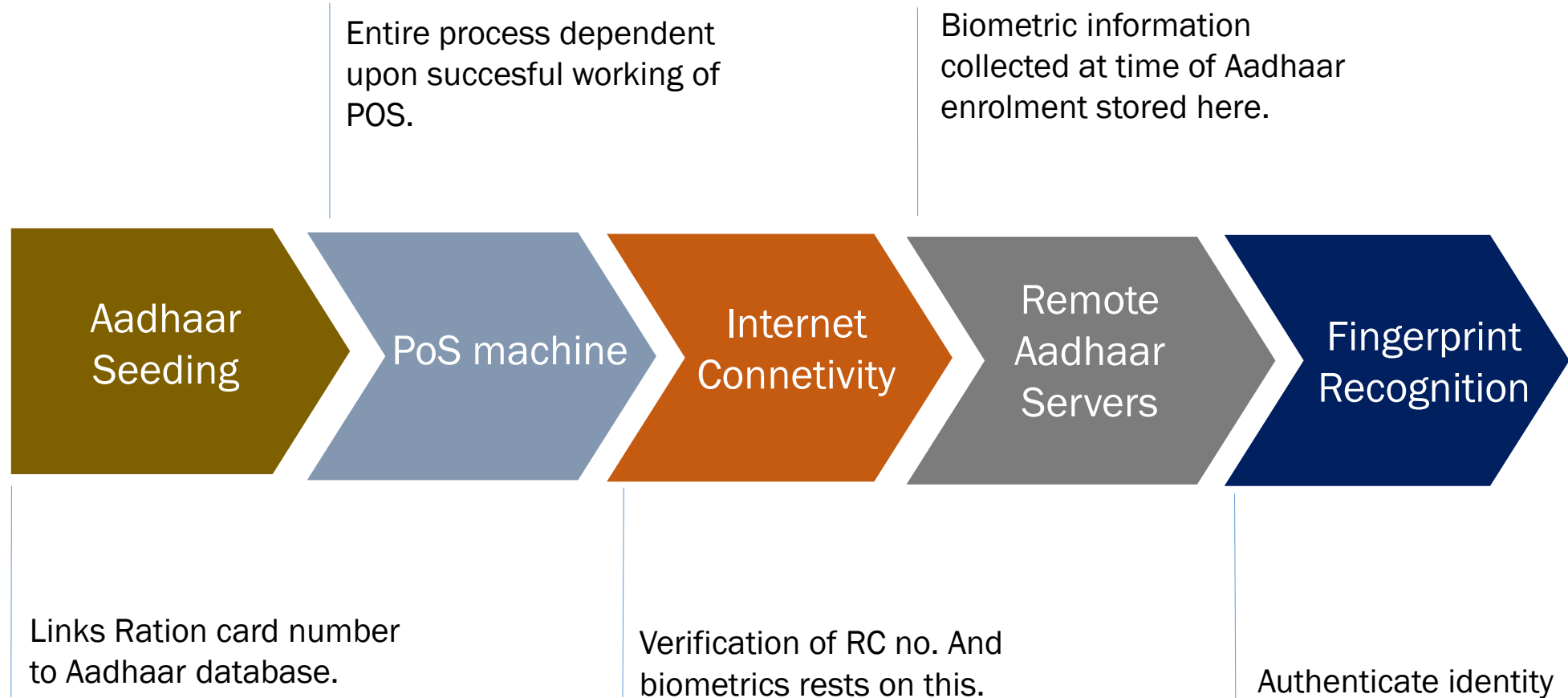
Ghosts

Skipping Months

Owner of 4-wheel vehicle gets rations

Not return change

How ABBA works: Fragile technologies



Three useful safeguards (Jharkhand)

Any 'seeded' household member can collect grains for entire family if they pass biometric test.

OTP facility

Need mobile, seeding, connectivity

Ration doesn't lapse until end of *following* month

Despite these safeguards, the system often fails

Aadhaar enrolment *mandatory*.



Rahil Dungdung

- Widow living alone – AAY card.
- No ration since Nov 2016.
- Why? No Aadhaar card. Has all docs; tried but failed.

Belkula, Bolba (Simdega)

No “seeding”? No rations.



Santoshi Kumari

- 11 year old girl died on 28 Sept '17 of starvation.
- Family not receiving rations for last 6 months.
- Why? No Aadhaar “seeding”.

Karimatti, Jaldega, Simdega

Credits -

Photo: Taramani Sahu

Source: RTF Jharkhand and Aarefa Johari (Scroll.in)

Fingerprints don't match? Go home empty-handed.

Biometrics failures especially common for two groups: elderly and manual laborers.



Rooplal Marandi

- Aged man, 65-75 yrs., living with daughter, died on 23 Oct '17.
- No rations for last two months.
- Why? Biometrics didn't work for *both* him and daughter .

Bhagwanpur, Deoghar

Credits -
Photo: HT
Source: Sanjoy Dey (HT)

Jharkhand PDS Survey 2017

4 of 5 Divisions (except Palamu)

8 Districts [2 per division]

16 Blocks [2 per districts]

32 villages [2 per block]

890 Households

Field work: June 2017

Reference period: May 2017

Targets per village:

20 transacting HH

+

20 non-transacting HH

890 HH; ~ 5000 persons

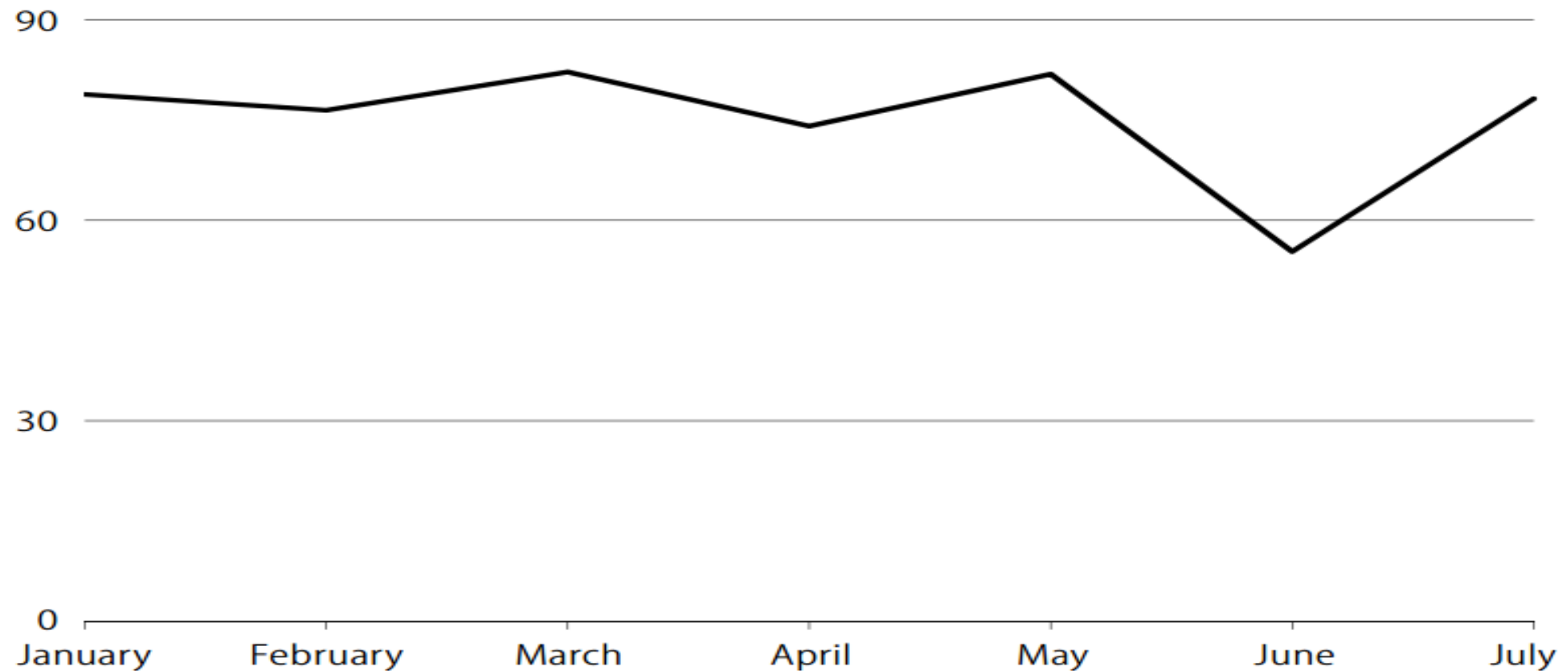
32 PDS dealers

Sample villages

<i>Type</i>	<i>Total</i>	<i>Aadhaar seeding</i>	<i>ABBA</i>	<i>Internet</i>	<i>Monthly transaction upload</i>
Online	18	Y	Y	Y	Y
Offline	7	Y	N	N	Y
Other *	7	N	N	N	N

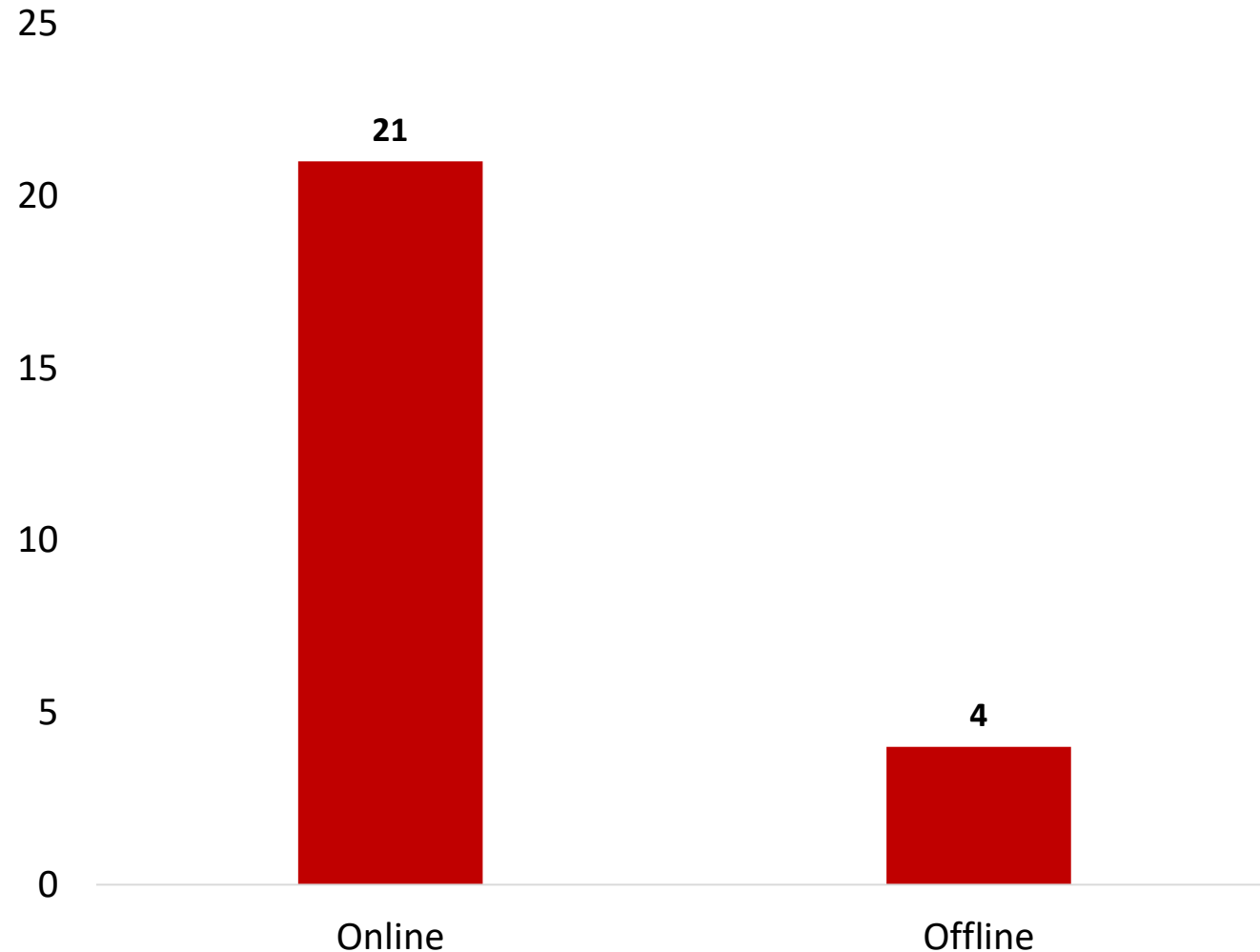
* Register system; J-PAL control blocks

Transaction rates in Ranchi district, Jan - July '17



Source: Calculated from official records (<http://aahar.jharkhand.gov.in/>). For further details, see Khalid (forthcoming).

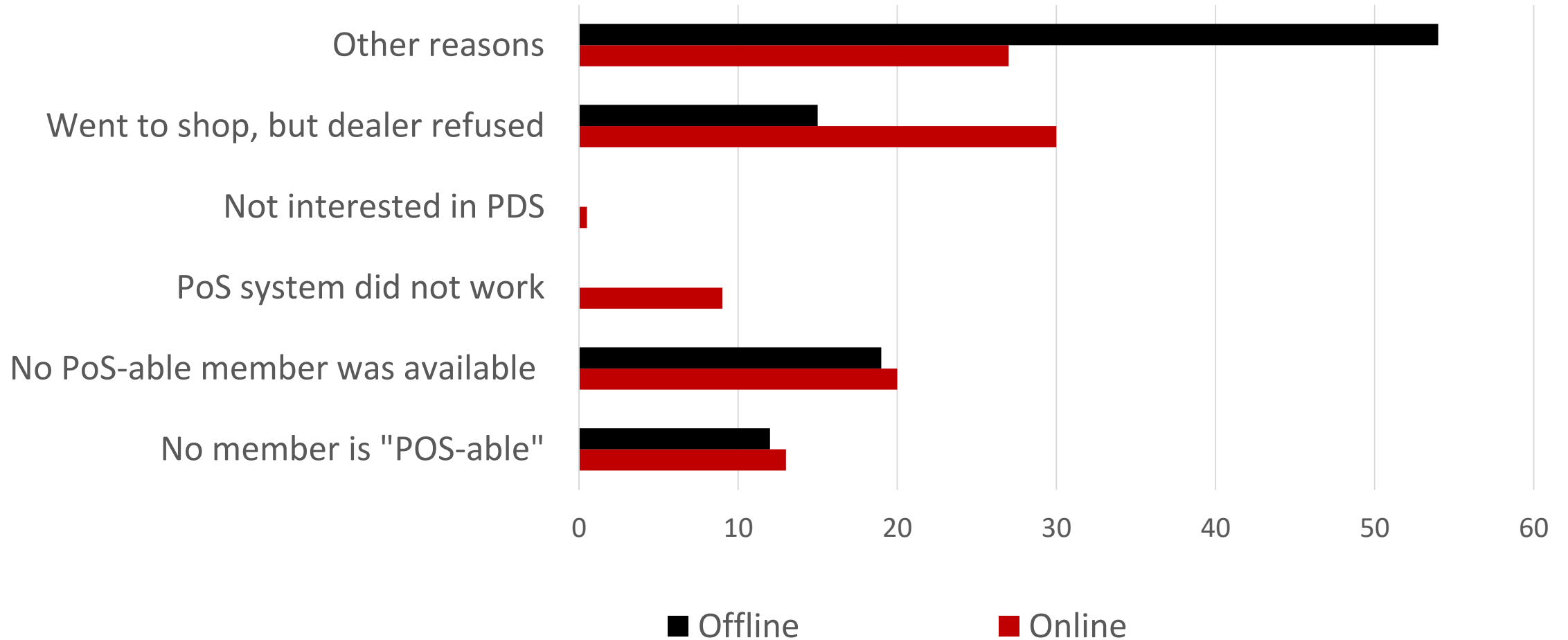
Transaction failure rates* in sample, May '17



* Defined as the proportion of households not transacting grains in a particular month.

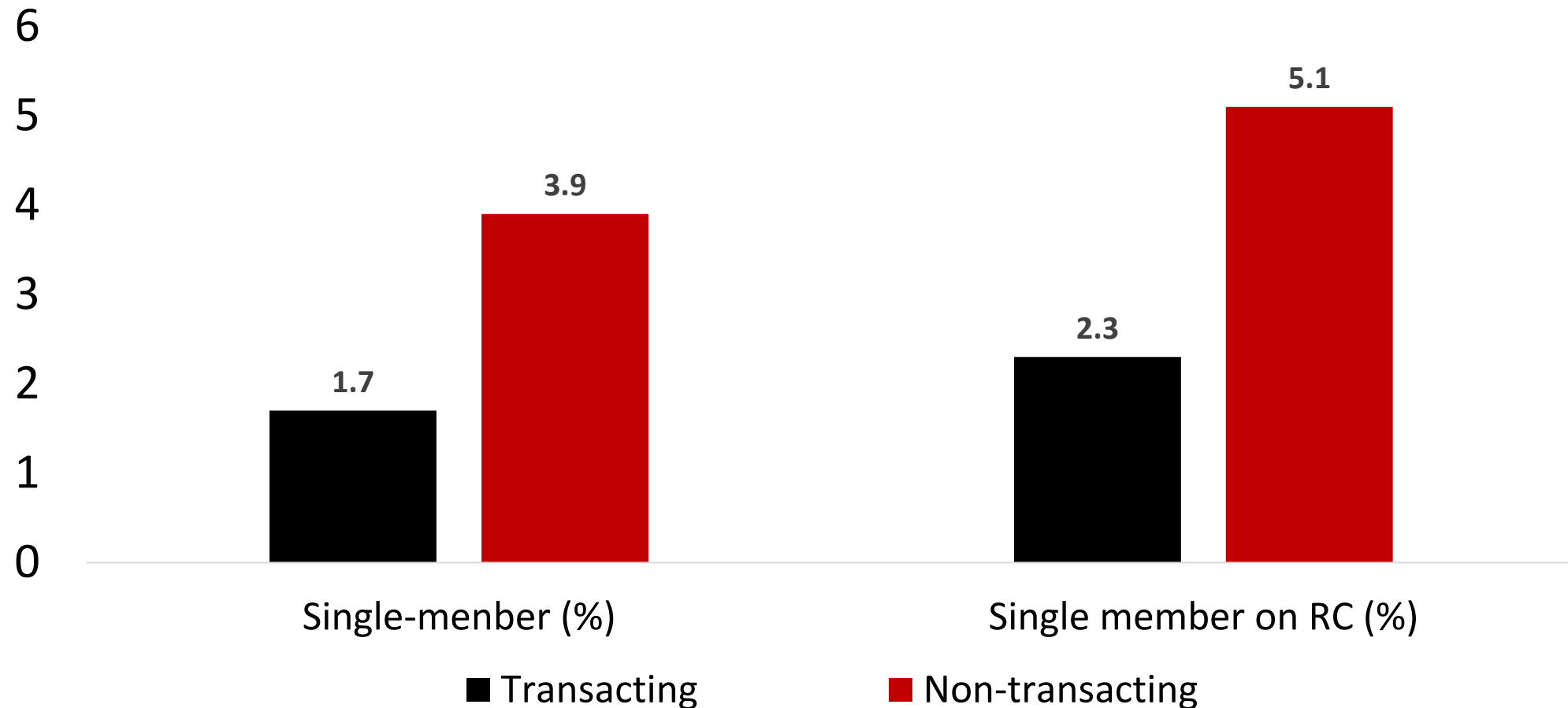
- Data only on 'transacted' or not. No breakdown/reasons.
- Website data suggest 12% for offline. But survey finds 2/3rd such households had transacted in-fact in May '17.

Reasons for non-transaction



Non-transacting households

Transaction failures higher among smaller HH



Non-transacting households

Often most vulnerable: elderly, widows, destitute.



Olas Hansda

- 75 year old girl widow, lives alone.
- No rations since Jan 2017
- Why? She cannot walk and hence cannot 'authenticate' herself.

Durirta, Saraikela

Non-transacting households



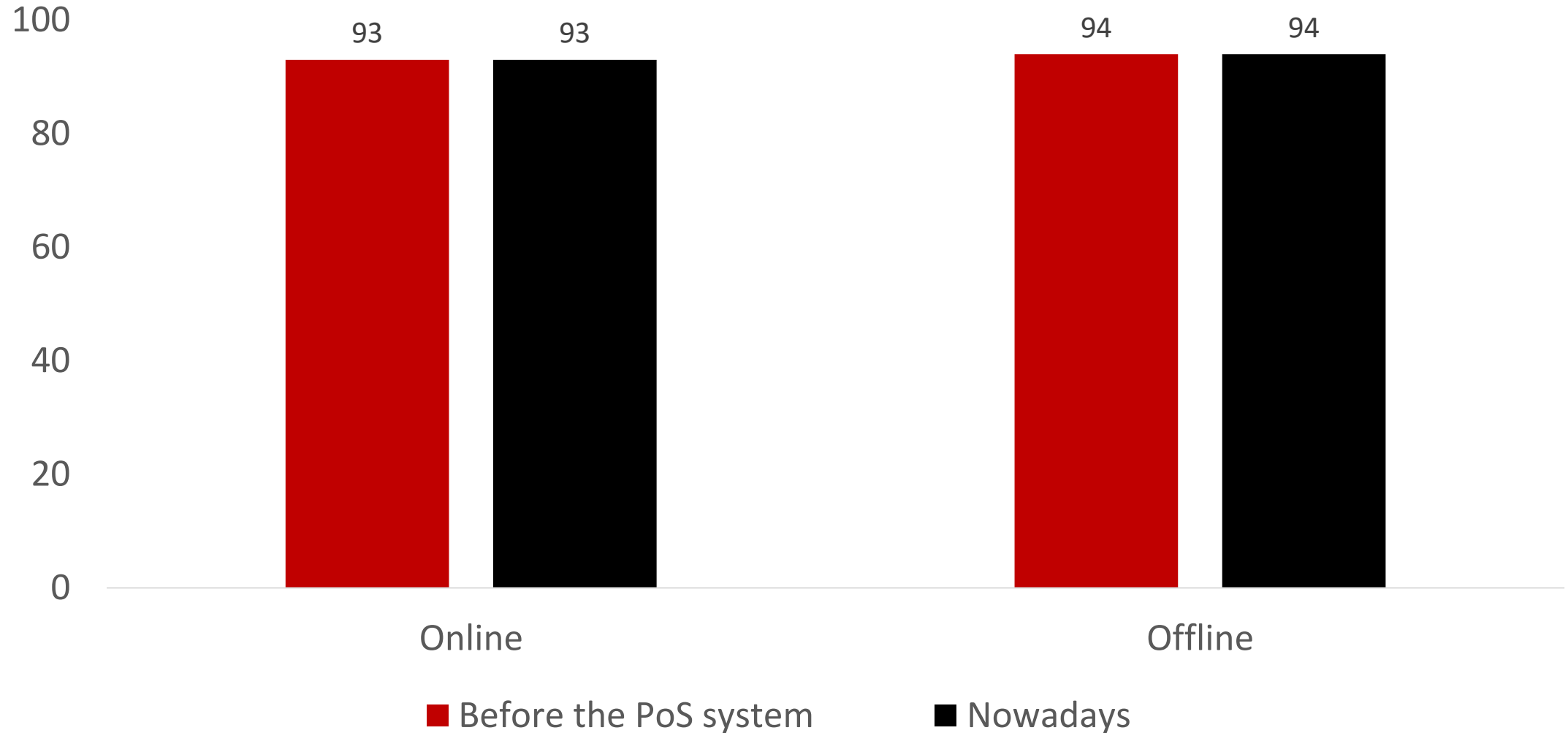
Tilo Kumari

- Single woman living alone. Hard of hearing.
- No rations since Sept ' 16.
- Why? Fingerprints don't match Aadhaar biometrics.

Sosotoli, Khunti

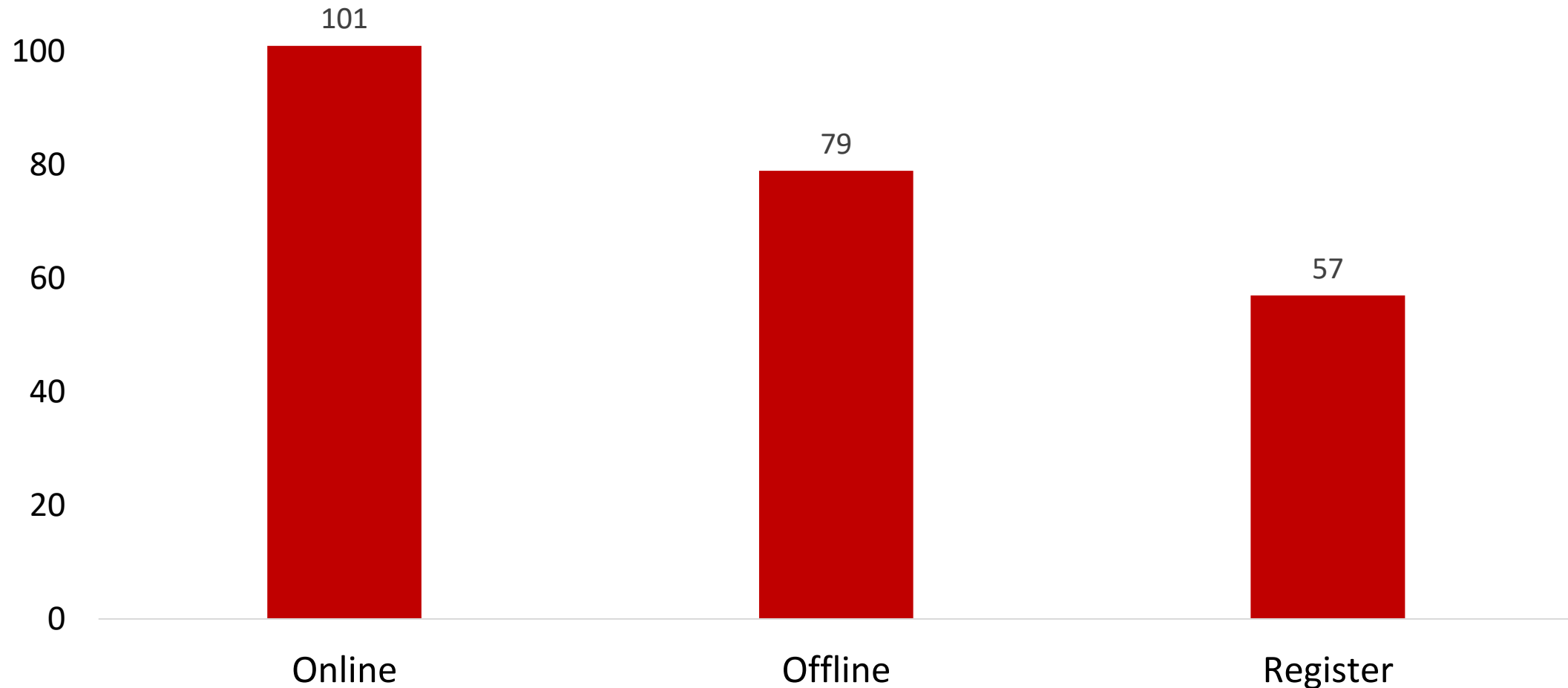
ABBA: No impact on quantity fraud

Purchase-Entitlement Ratio (%)



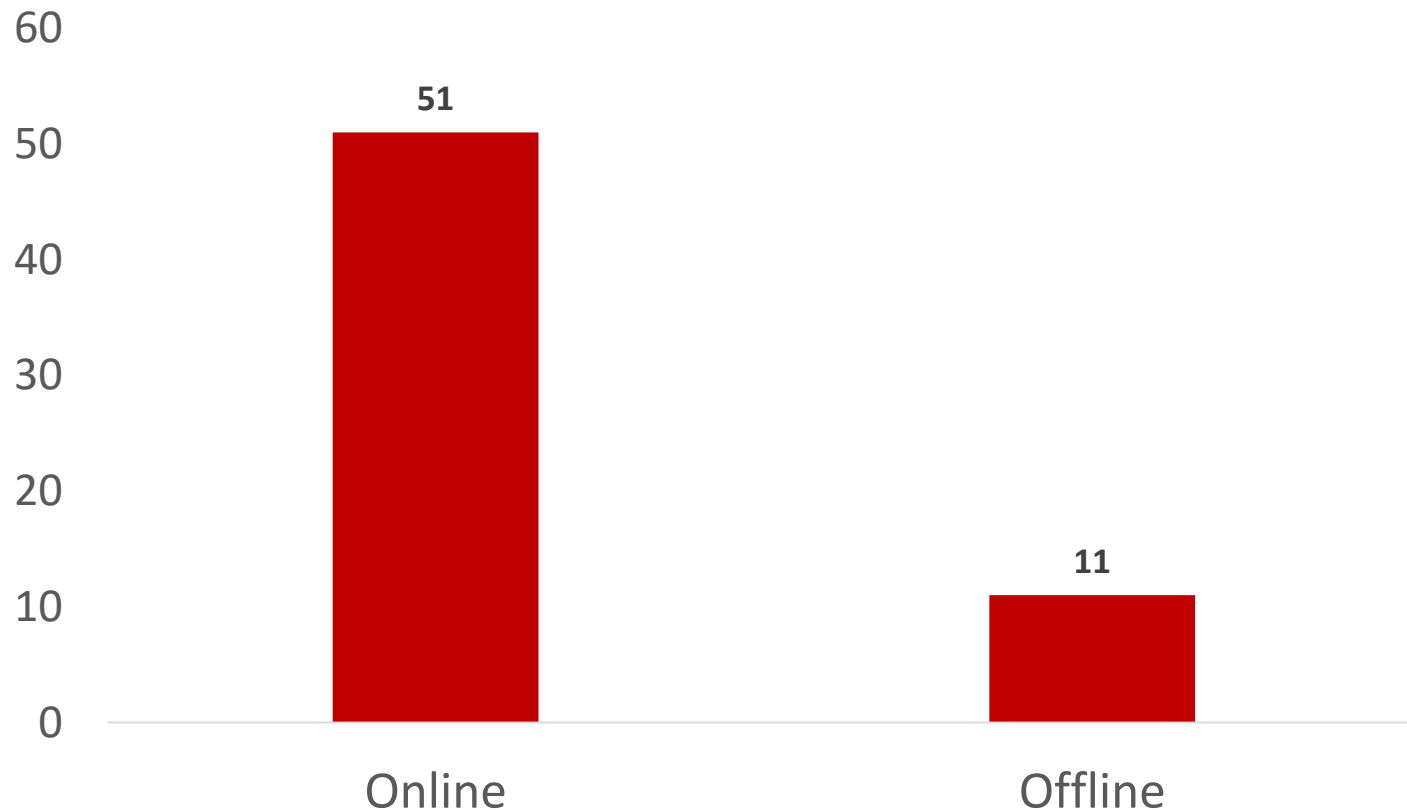
ABBA: Transaction costs are up

Average time (mins) to collect rations



ABBA: Transaction costs are up

Experienced PoS-related issue (%) – Transacting households*



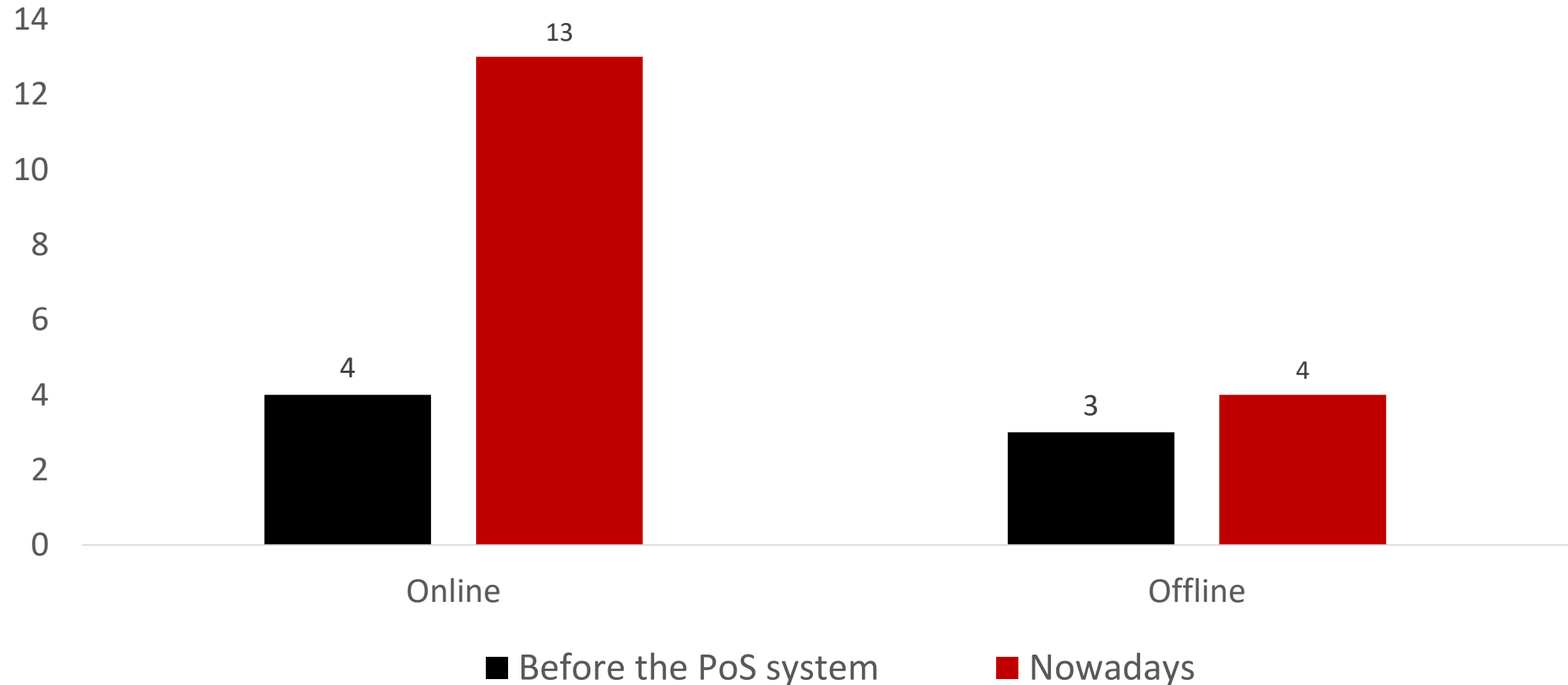
*** PoS-related issues include:**

- “Seeding” issues
- Connectivity problems
- Broken machine
- Biometric failure
- Error message

Only 3% used OTP in Online, May’17

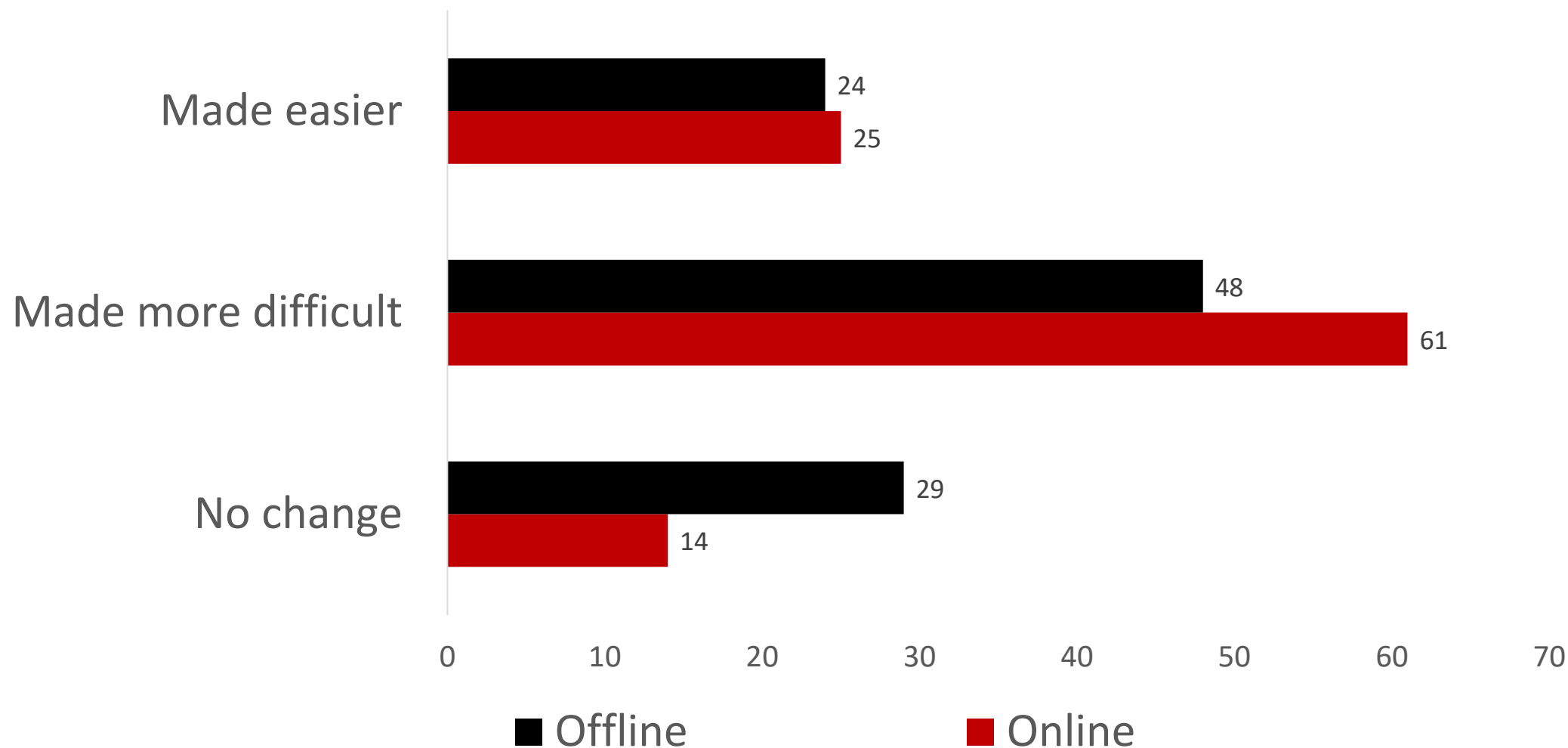
ABBA: Transaction costs are up, even for dealers

Average days for distribution

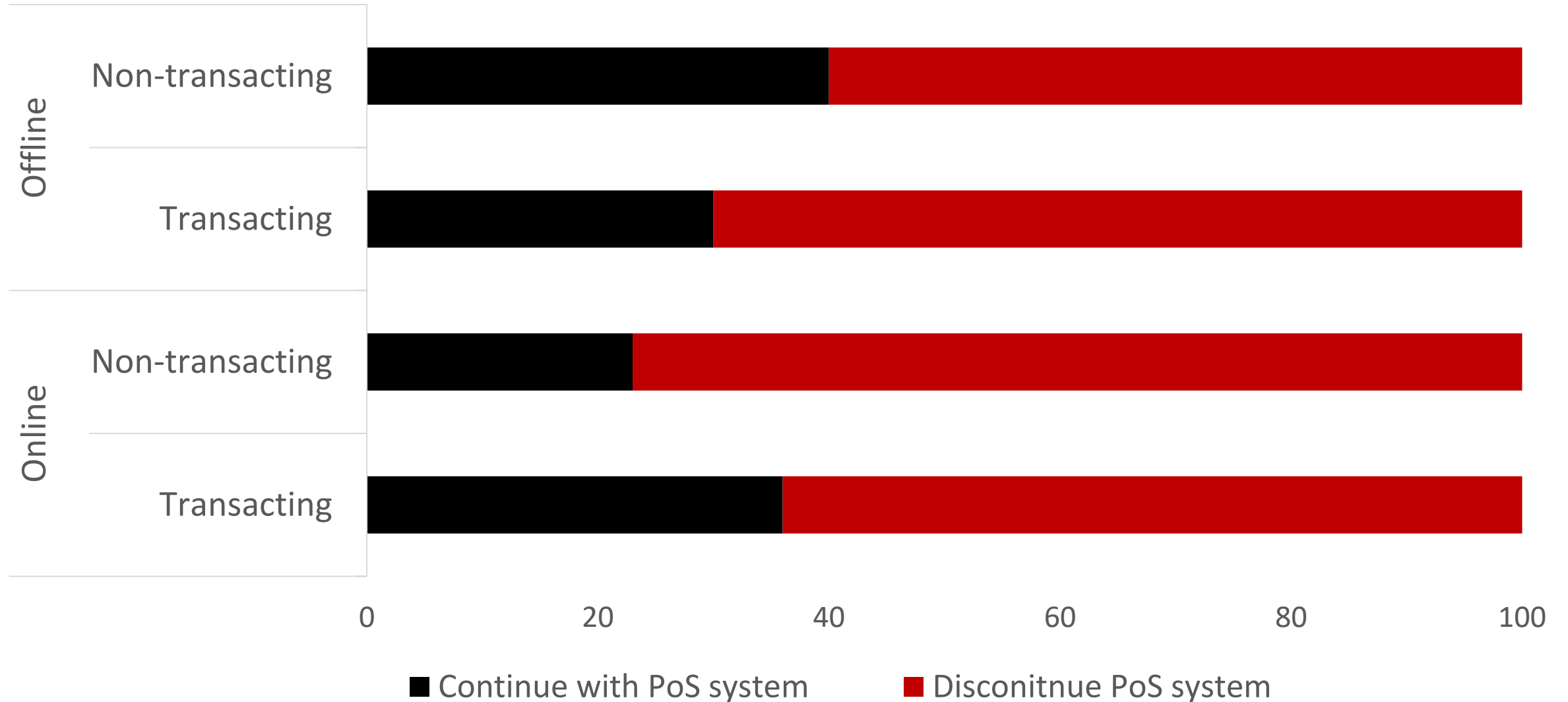


Perception of users: Impact of ABBA on PDS purchases

Transacting households



Perception of users: Continue vs. Discontinue



Aadhaar - enabled corruption in the PDS

- Cross-seeding of Aadhaar numbers
- Even when fingerprint works, claim that it has failed
- Authenticate for two months, give only one month
- Has 'katauti' increased (because dealers have to spend more time)?
- Separating authentication and distribution of grain.
- Authenticate for all commodities, but give only some
- What happens to all the 'leftover' grain each month? Not adjusted against next months allocation

Aadhaar savings estimates

- Exclusion as 'savings' – string of RTIs
- World Development Report, Digital Dividends
- Ineligibility/revamp of PDS lists as savings – Parliament questions

In a nutshell,

- A lot of pain, for little gain
- What is good about the system is achievable by other technologies, without the pain
- Ultimately, greater awareness and strong grievance redressal and action is what will fix the system
- Depending on fragile technologies for crucial social security nets is grave injustice