

Calculation of Redistribution Payment Models based on Austrian FADN-Data

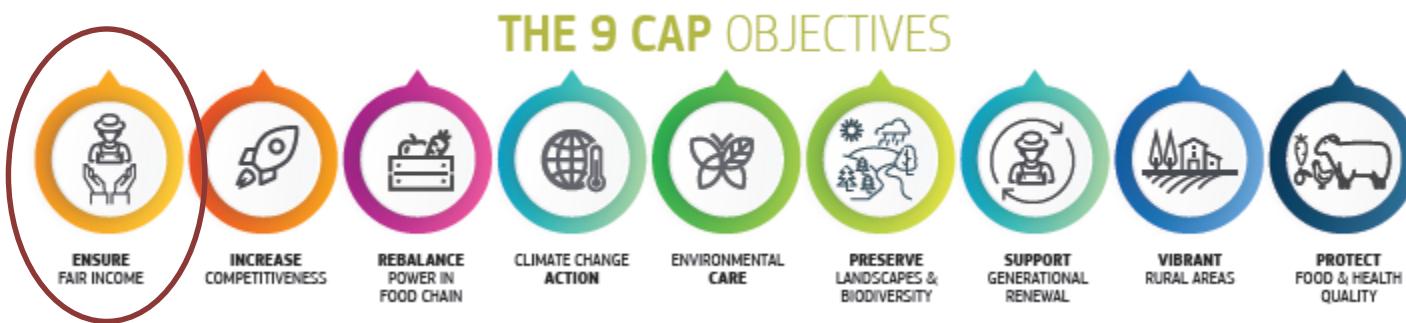
PACIOLI Workshop
1st of October 2018

Dir. DI Thomas Resl, MSc.
Federal Institute of Agricultural Economics
Marxergasse 2, 1030 Wien
thomas.resl@awi.bmnt.gv.at www.agraroekonomik.at

Introduction

Λ | w | i

1st of June 2018: European Commission (2018) presented legislative proposals on the Common Agricultural Policy (CAP) beyond 2020



Initial situation

A | w | i

- The historical model of direct payments (pillar 1) applied in Austria will gradually be converted to a so-called "regional model" by 2019
- In addition, coupled support (cattle raising for sheep, sheep and goats) and financial support from young farmers are paid
- In the agricultural policy discussion for the CAP from 2020 following topics are addressed:
 - a redistribution payment toward smaller farms
 - the capping of direct payments
 - coupled payments for certain products (e.g. suckler cows, sugar beet)

Fact based agricultural policy using

A | w | i

- IACS data
 - to display the changes +/- in **payments** per farm (static)
- Multiannual FADN data
 - to display changes +/- in **income** per farm and labour unit (static)
- Modelling of changes in agricultural policy and prices of products with the objective to maximize farm income (dynamic, in progress)

Data and their sources



- Individual annual accounts (accounting results) of the 2.000 sample farms (2013 – 2016) (Source: LBG Austria, Efile 2016)
- IACS data 2016 (direct payments data 2016, broken down by basic premium, greening premium, top-up young farmers and coupled payments on pasture land) (source: BMNT)
- ASS 2016: calculation of the sampling plan and the operating weights (Source: Statistics Austria, calculated by AWI)
- Link file between FADN- and IACS farms
- Extrapolation results of accounting data for the years 2013 to 2016 for the determination of average income from agriculture and forestry

Status quo analysis FADN 2013-16

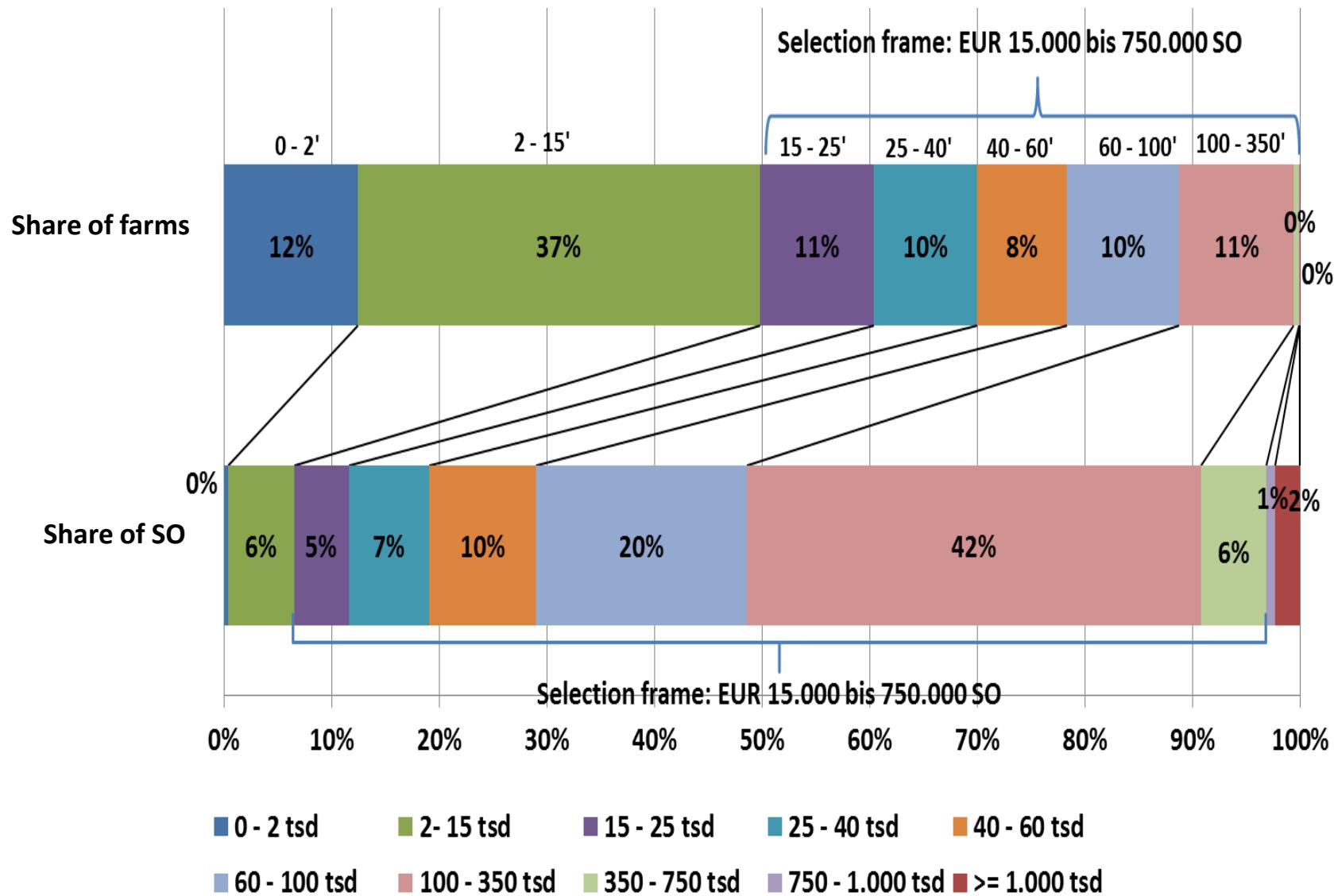


- Using structural data of 2016
- Recalculation direct payments to the value of 2019
(adjustment of the premiums in the 1st pillar)
- Consideration of yield and price fluctuations using correction factors
- New extrapolation of „farm income results“ for the (fictional) year 2019

**Results of these 2019 „farm Income results“
will be used for modelling of agricultural policy measures**

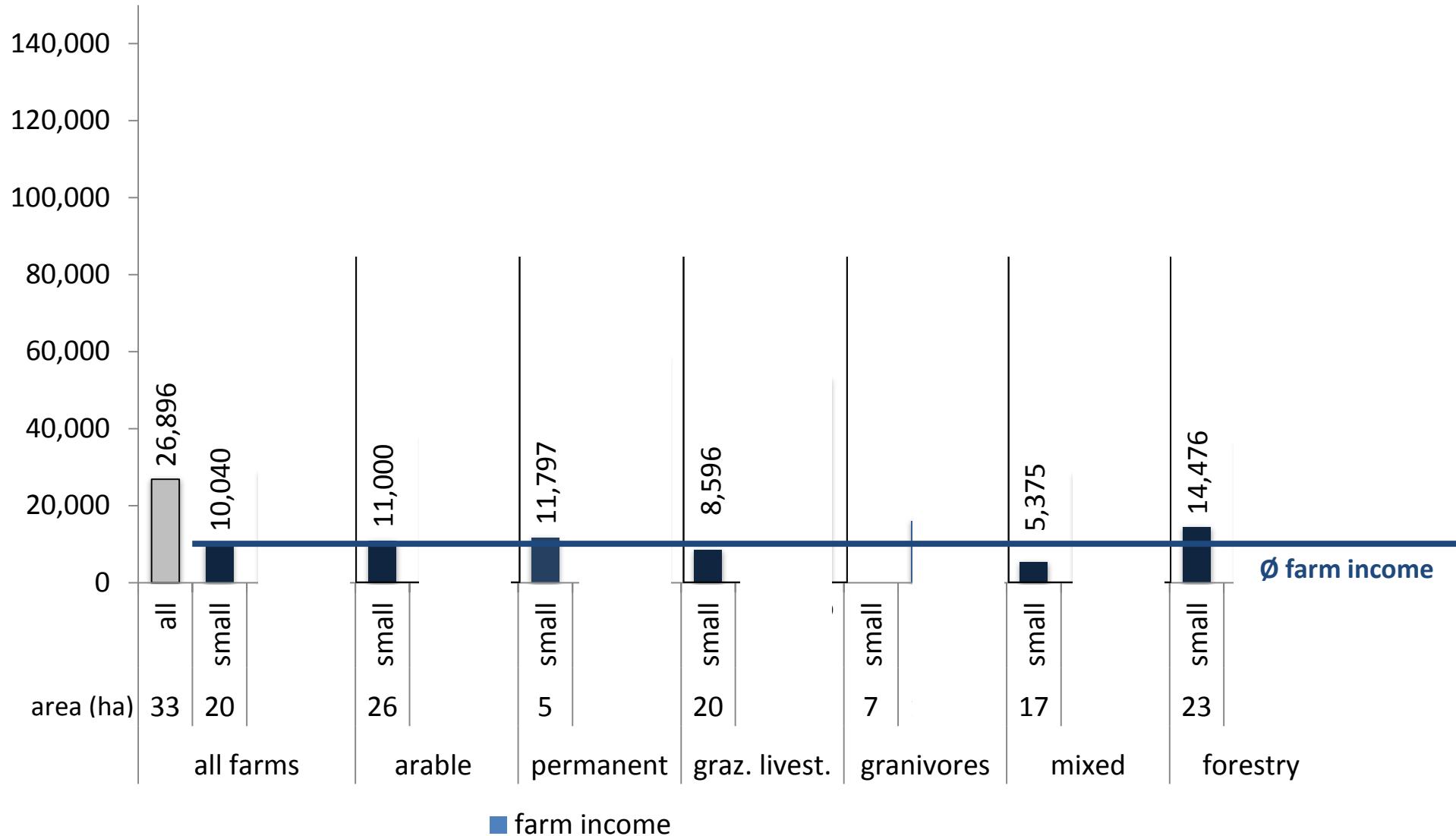
Structural data of the population

A | W | i



Status Quo

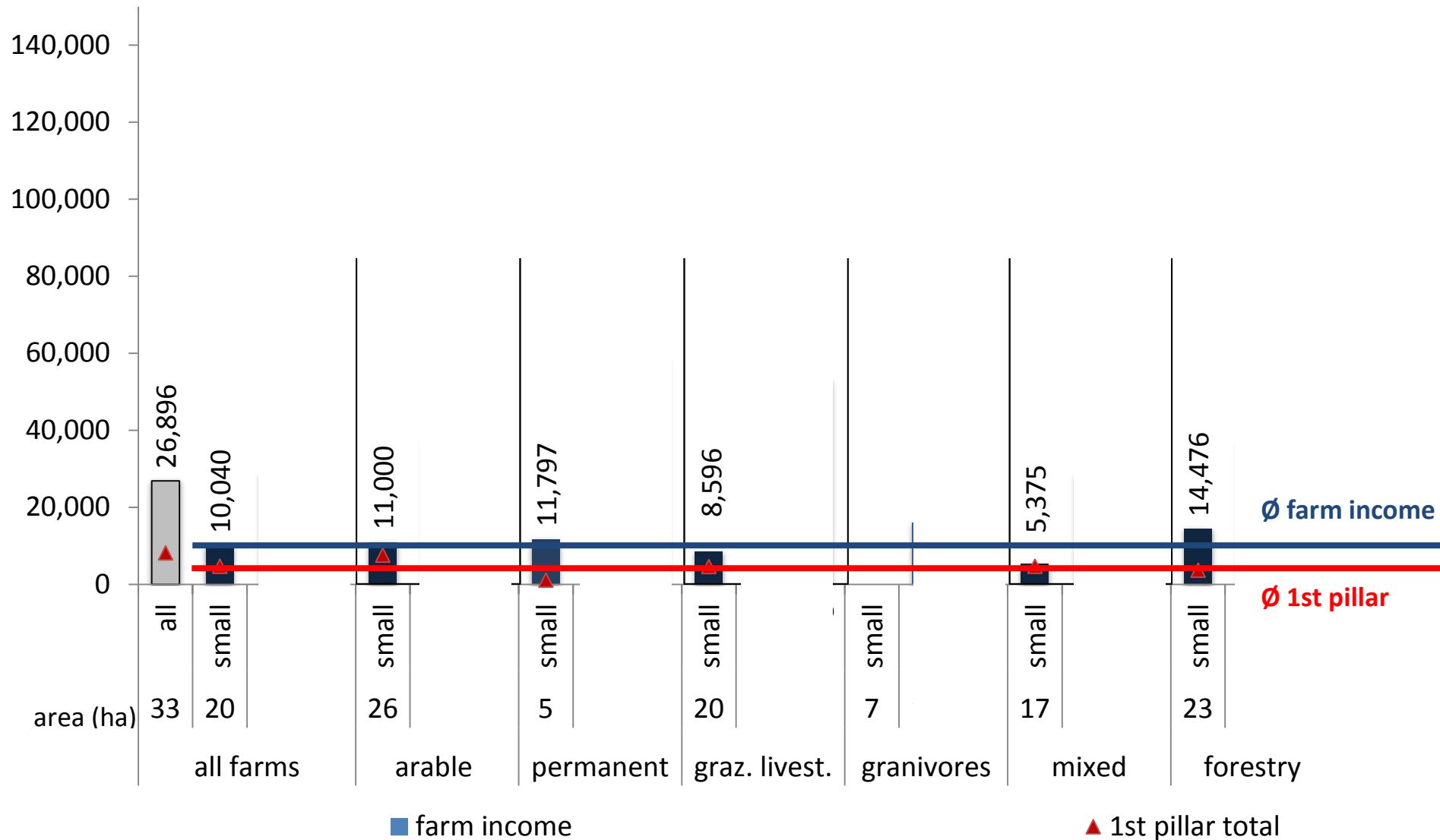
Modell 1 - 20 ha / EUR 100 redistributive payment (= 21,04 %) in EUR/farm



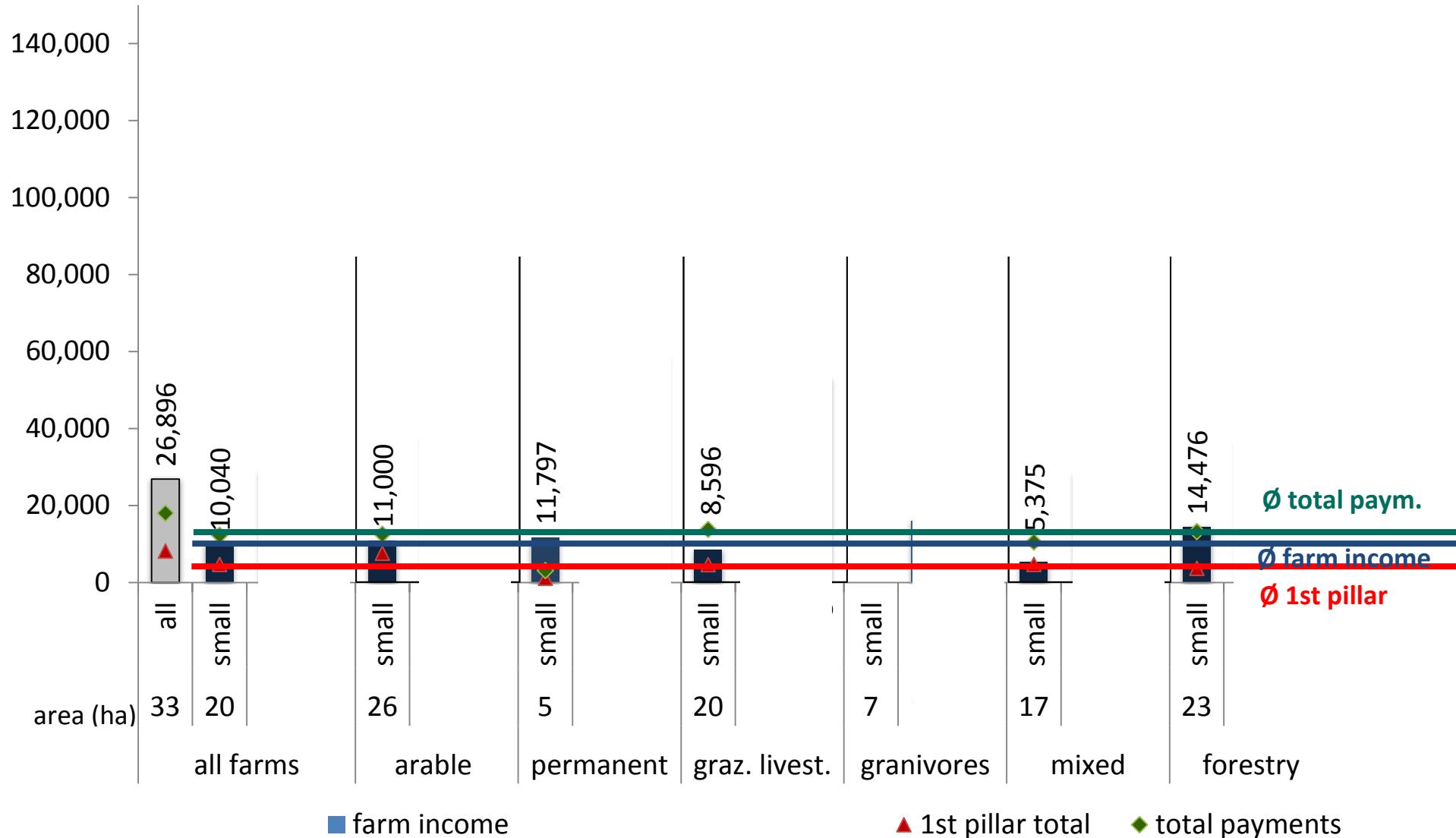
small: SO 15'-40' medium: SO 40'-100' big: SO 100'-350'

Status Quo

Modell 1 - 20 ha / EUR 100 redistributive payment (= 21,04 %) in EUR/farm



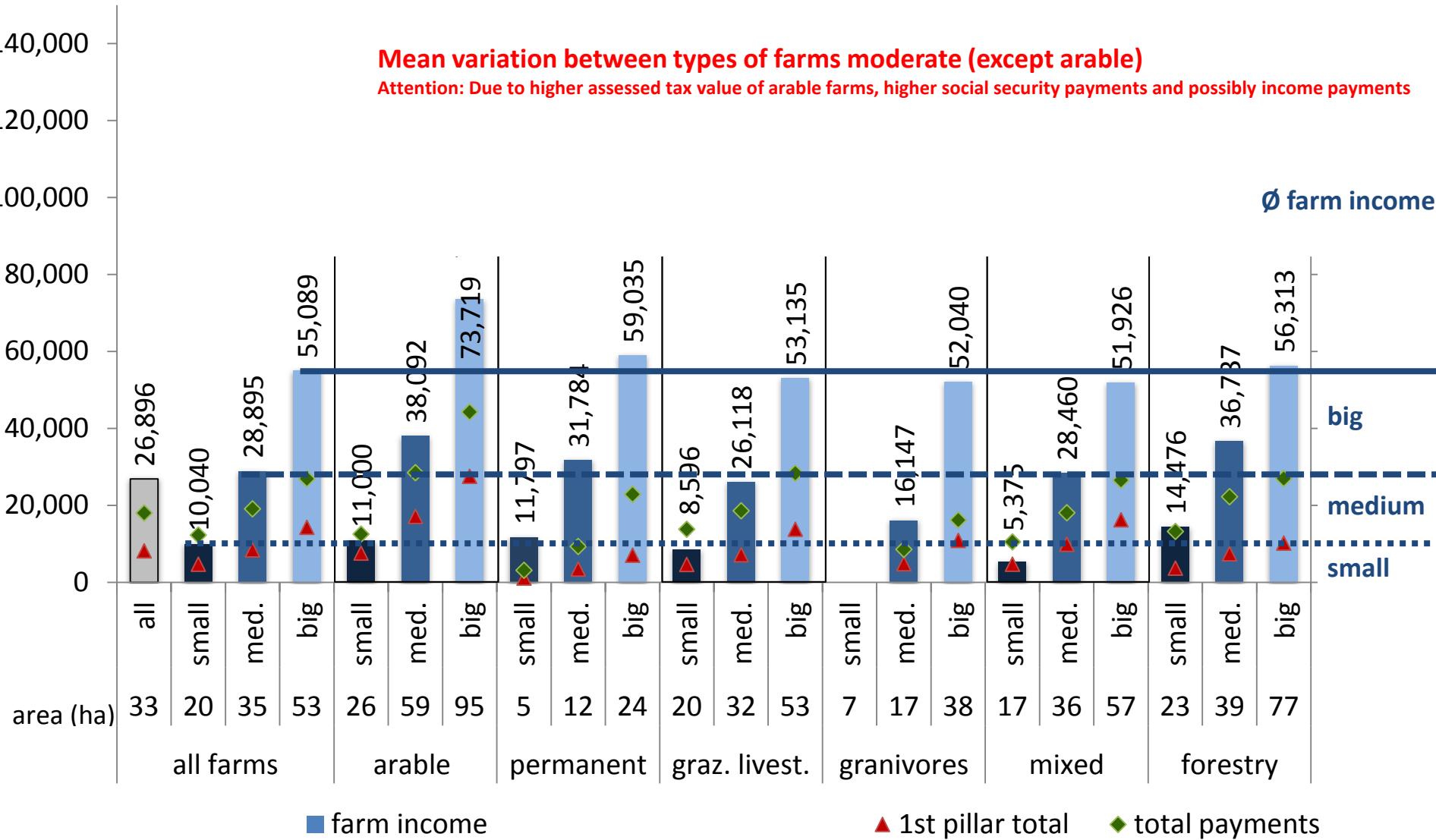
small: SO 15'-40' medium: SO 40'-100' big: SO 100'-350'



small: SO 15'-40' medium: SO 40'-100' big: SO 100'-350'

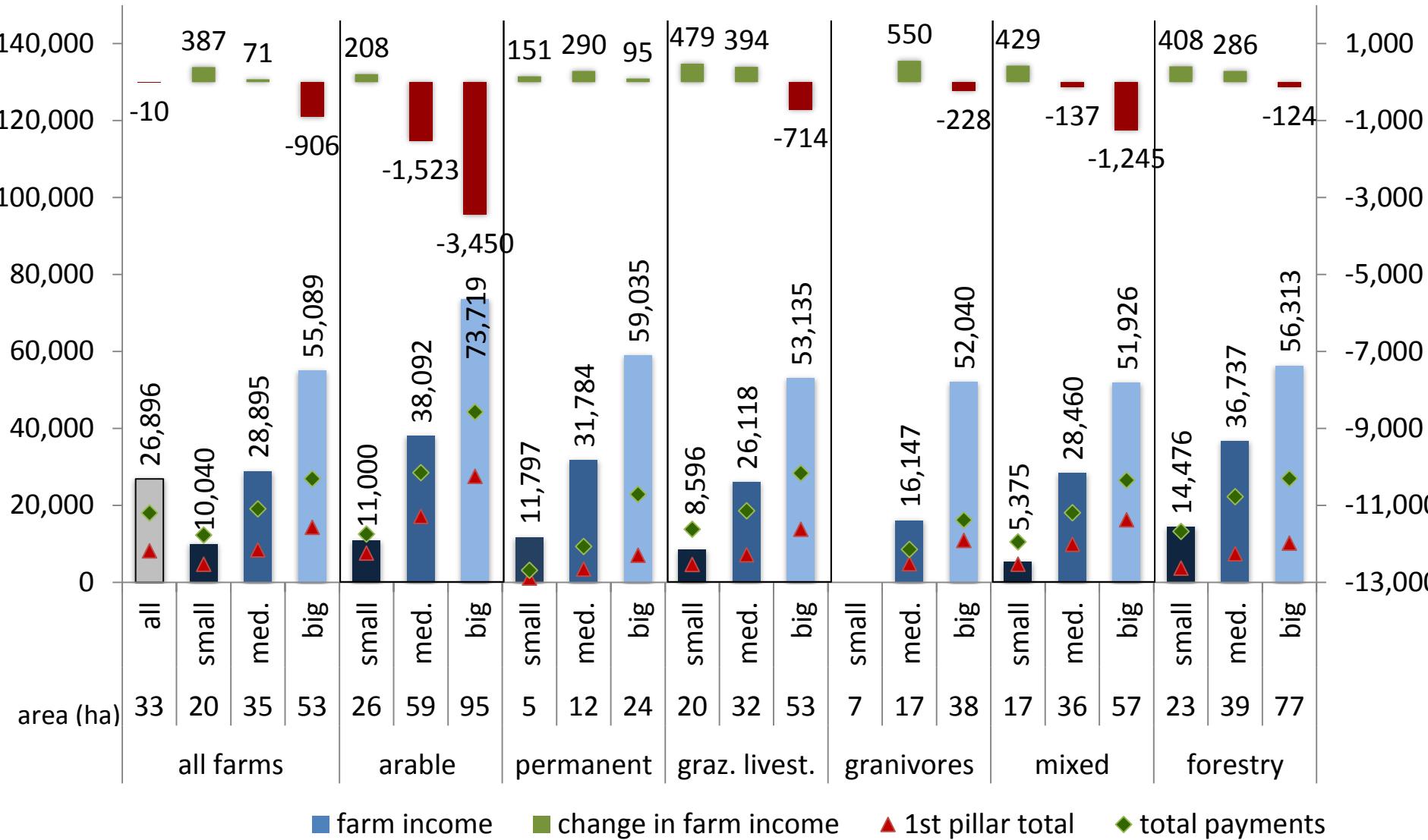
Mean variation between types of farms moderate (except arable)

Attention: Due to higher assessed tax value of arable farms, higher social security payments and possibly income payments



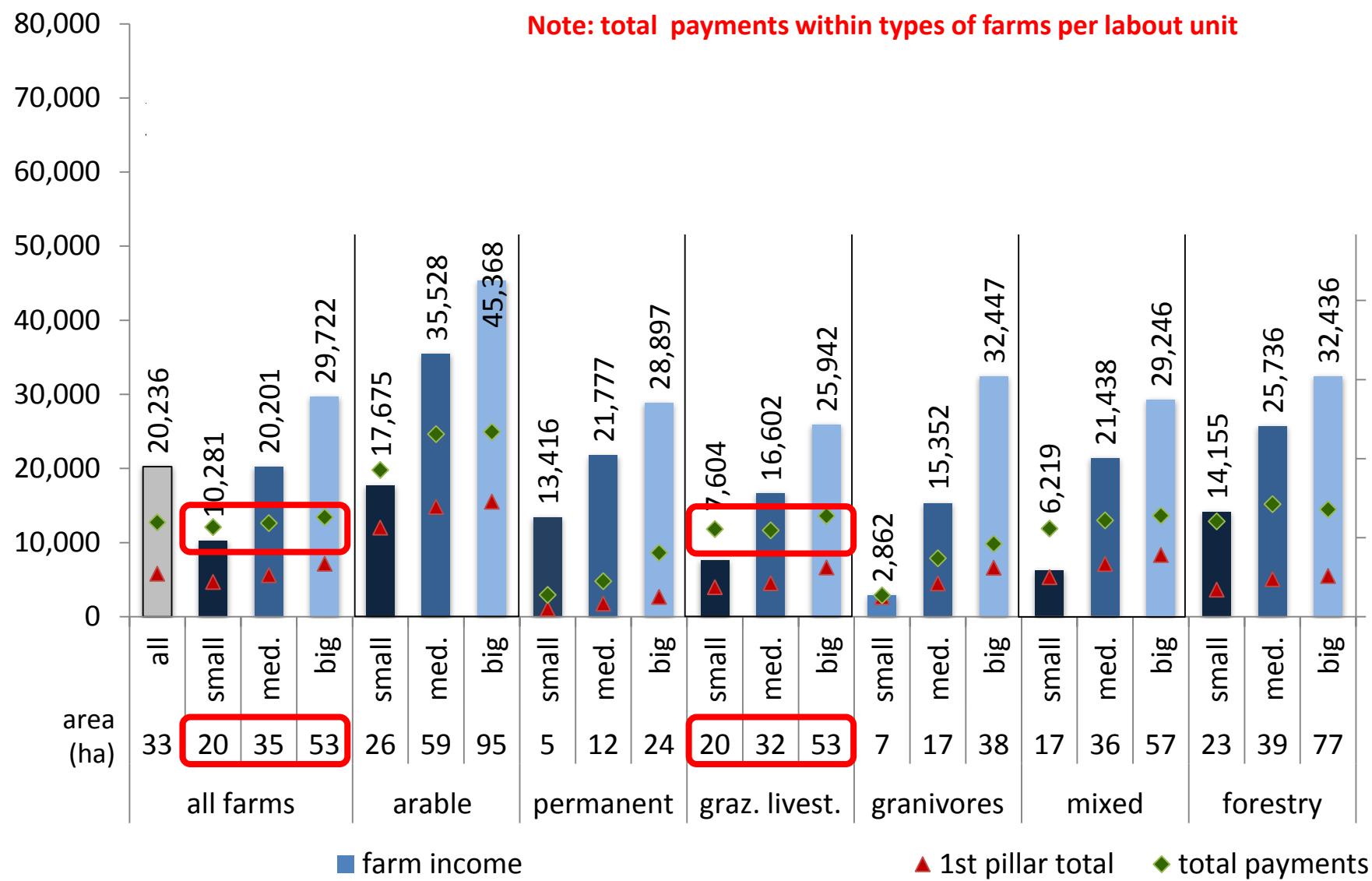
small: SO 15'-40' medium: SO 40'-100' big: SO 100'-350'

Status Quo

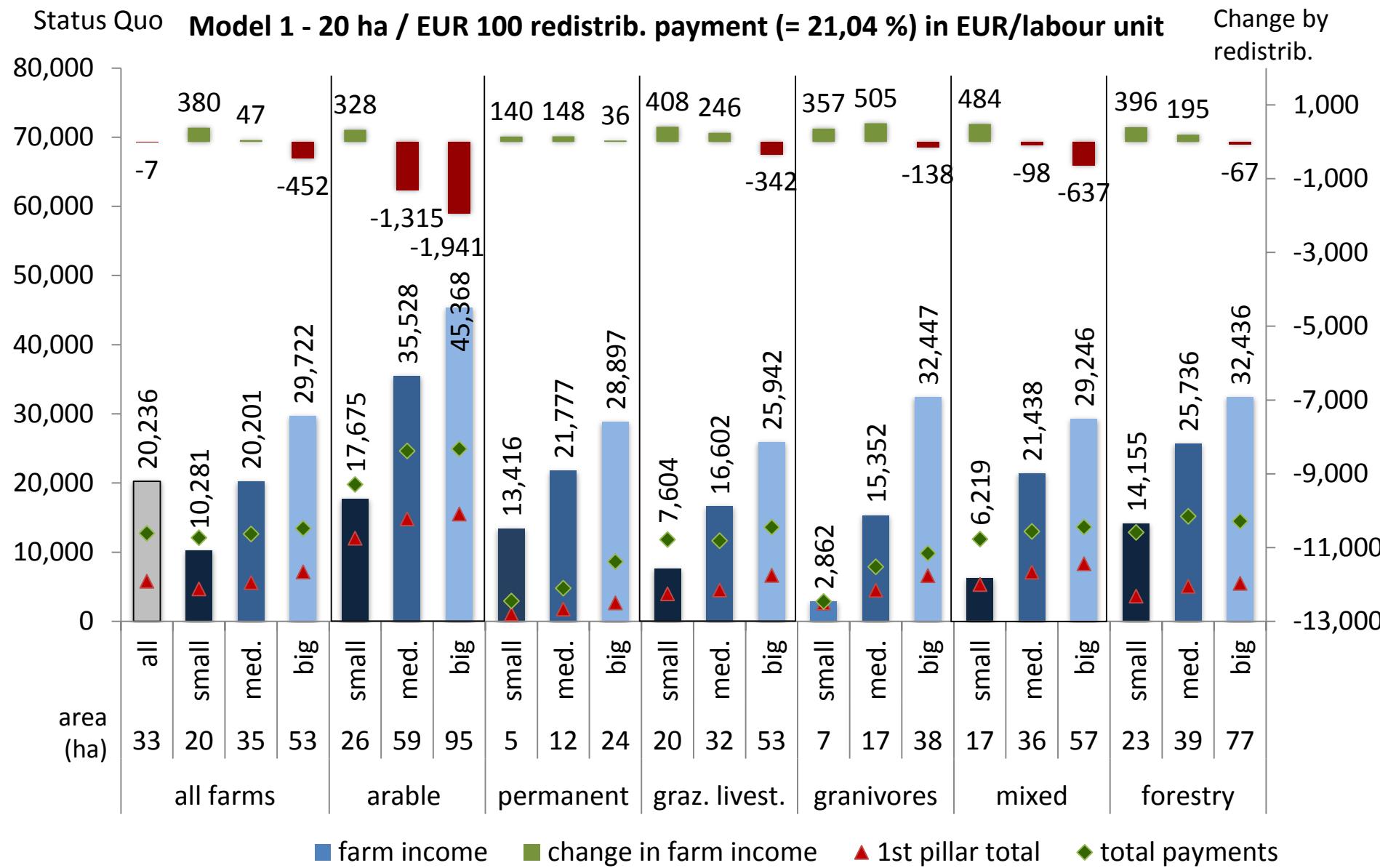
Modell 1 - 20 ha / EUR 100 redistributive payment (= 21,04 %) in EUR/farmChange by
redistrib.

small: SO 15'-40' medium: SO 40'-100' big: SO 100'-350'

Status Quo

Model 1 - 20 ha / EUR 100 redistrib. payment (= 21,04 %) in EUR/labour unit**Note: total payments within types of farms per labour unit**

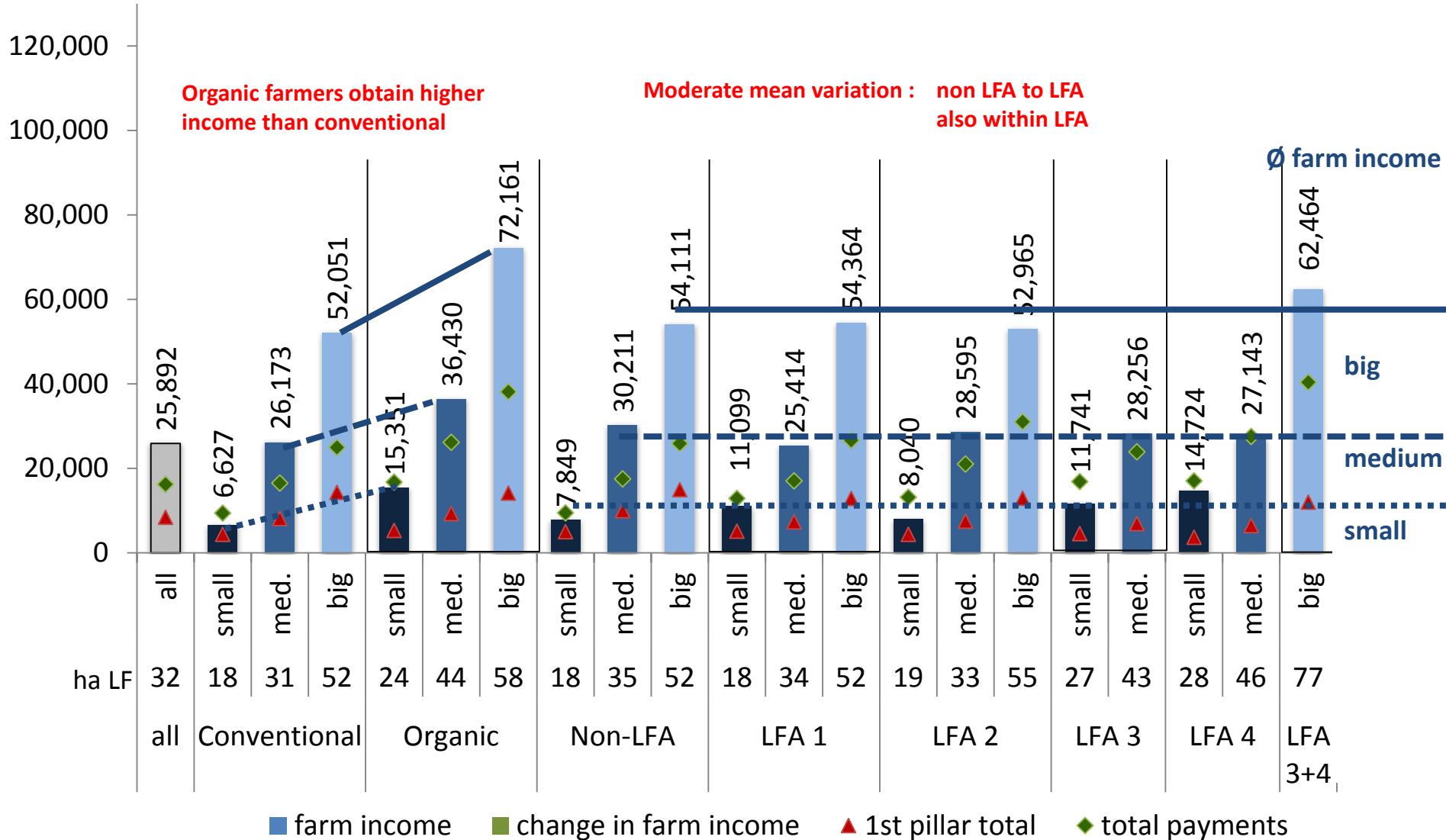
small: SO 15'-40' medium: SO 40'-100' big: SO 100'-350'



small: SO 15'-40' medium: SO 40'-100' big: SO 100'-350'

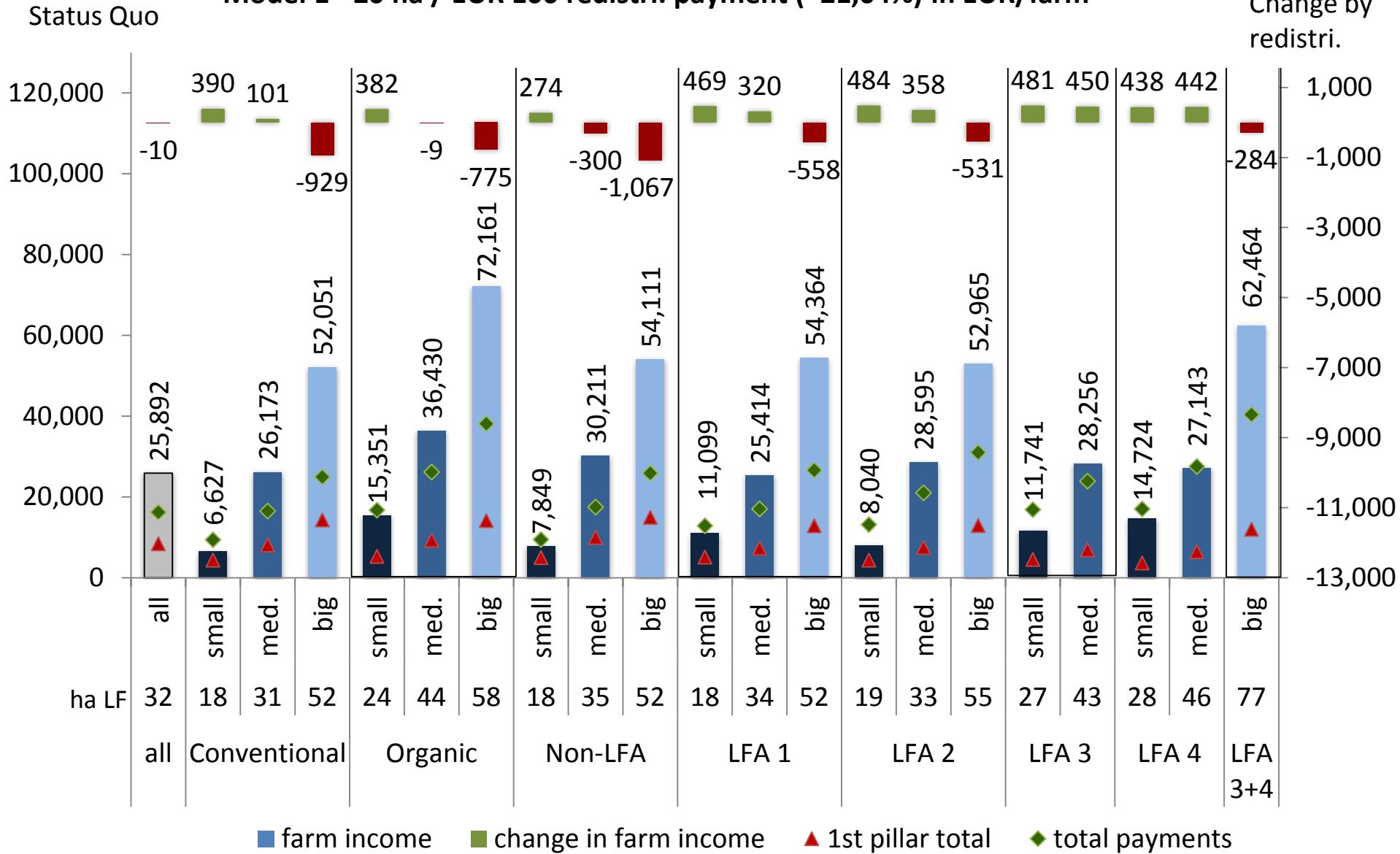
Model 1 - 20 ha / EUR 100 redistri. payment (=21,04%) in EUR/farm

Status Quo



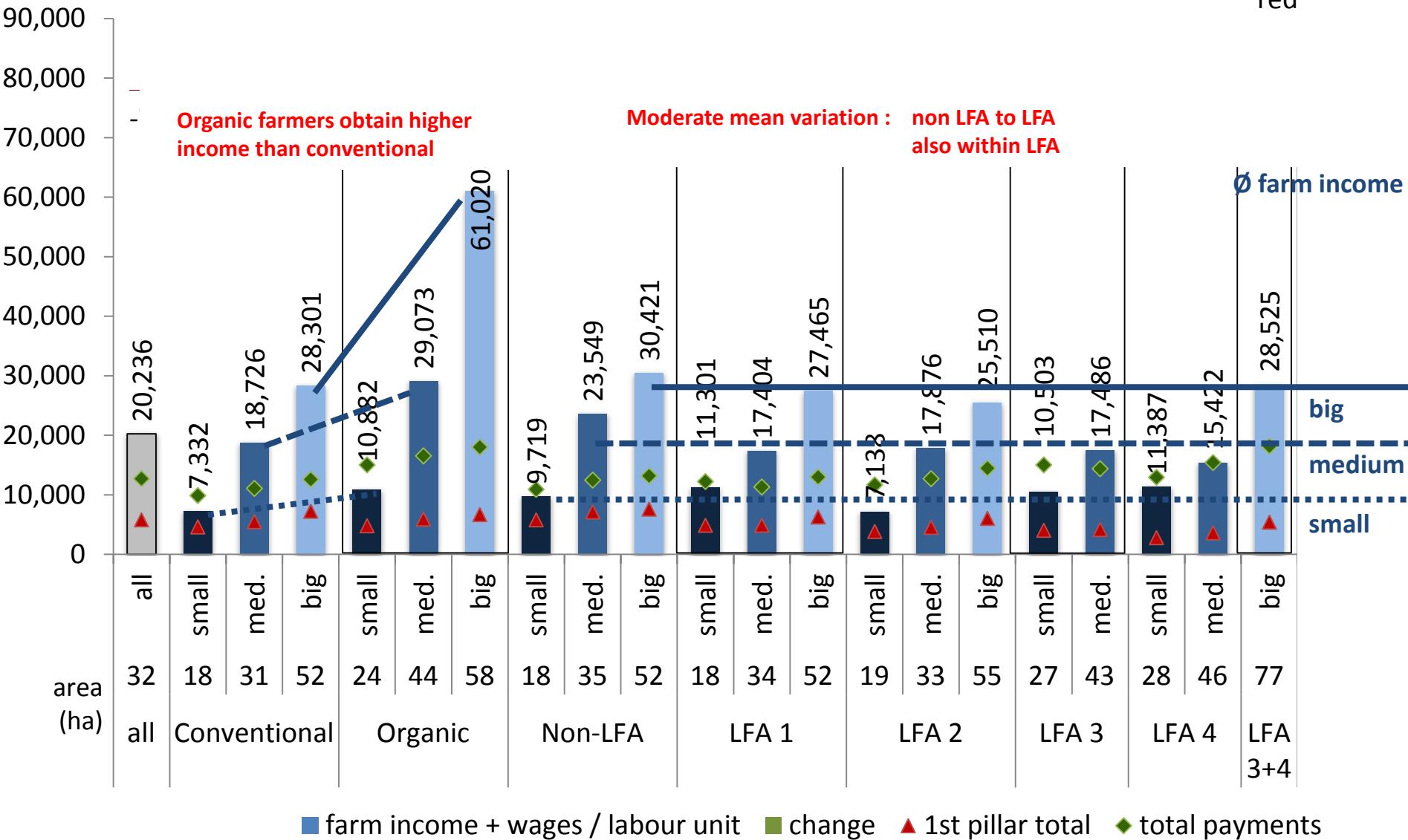
small: SO 15'-40' medium: SO 40'-100' big: SO 100'-350' LFA: Less Favoured Area

Model 1 - 20 ha / EUR 100 redistri. payment (=21,04%) in EUR/farm

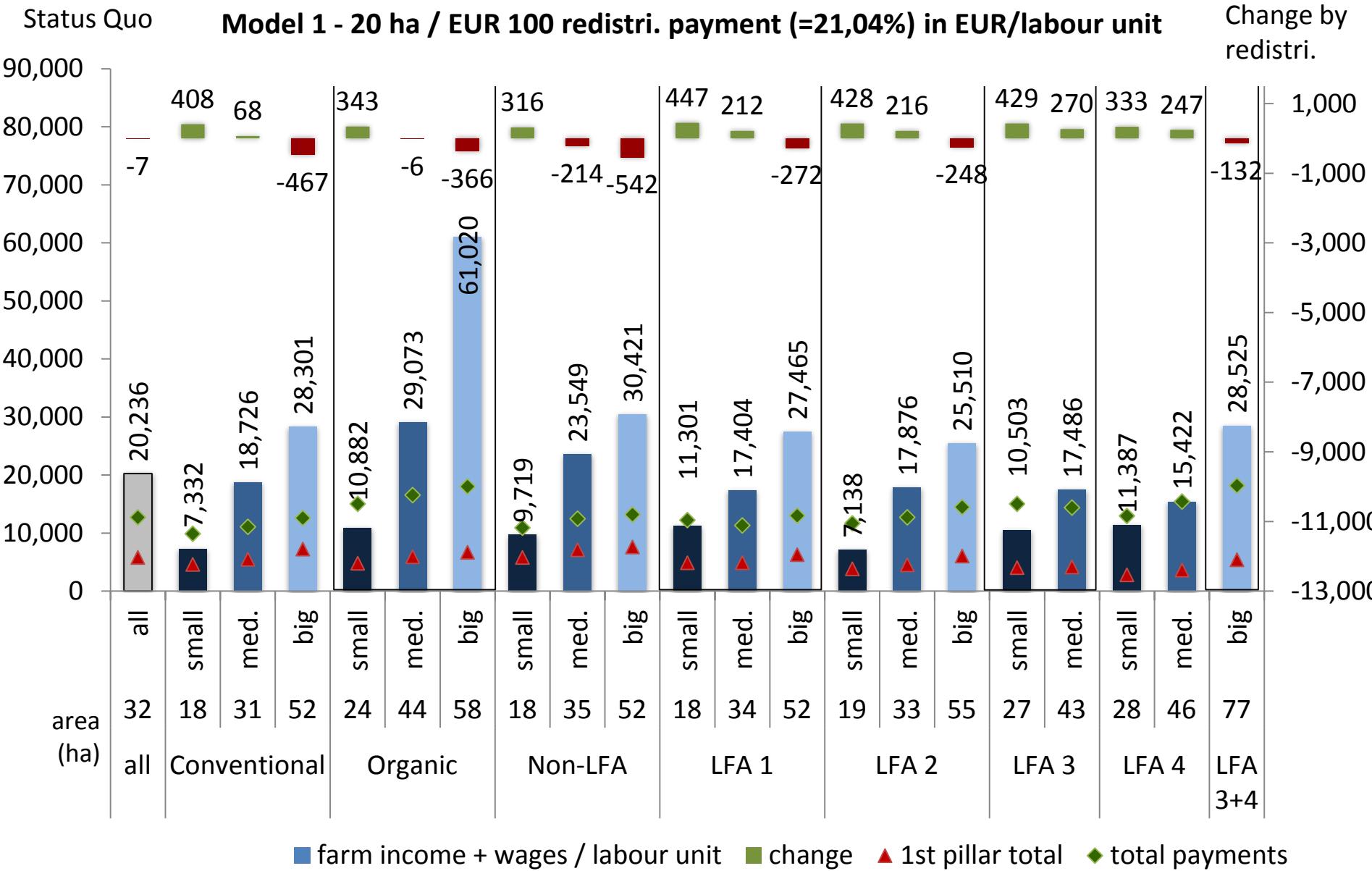


small: SO 15'-40' medium: SO 40'-100' big: SO 100'-350' LFA: Less Favoured Area

Status Quo

Model 1 - 20 ha / EUR 100 redistri. payment (=21,04%) in EUR/labour unitCh
red

small: SO 15'-40' medium: SO 40'-100' big: SO 100'-350' LFA: Less Favoured Area



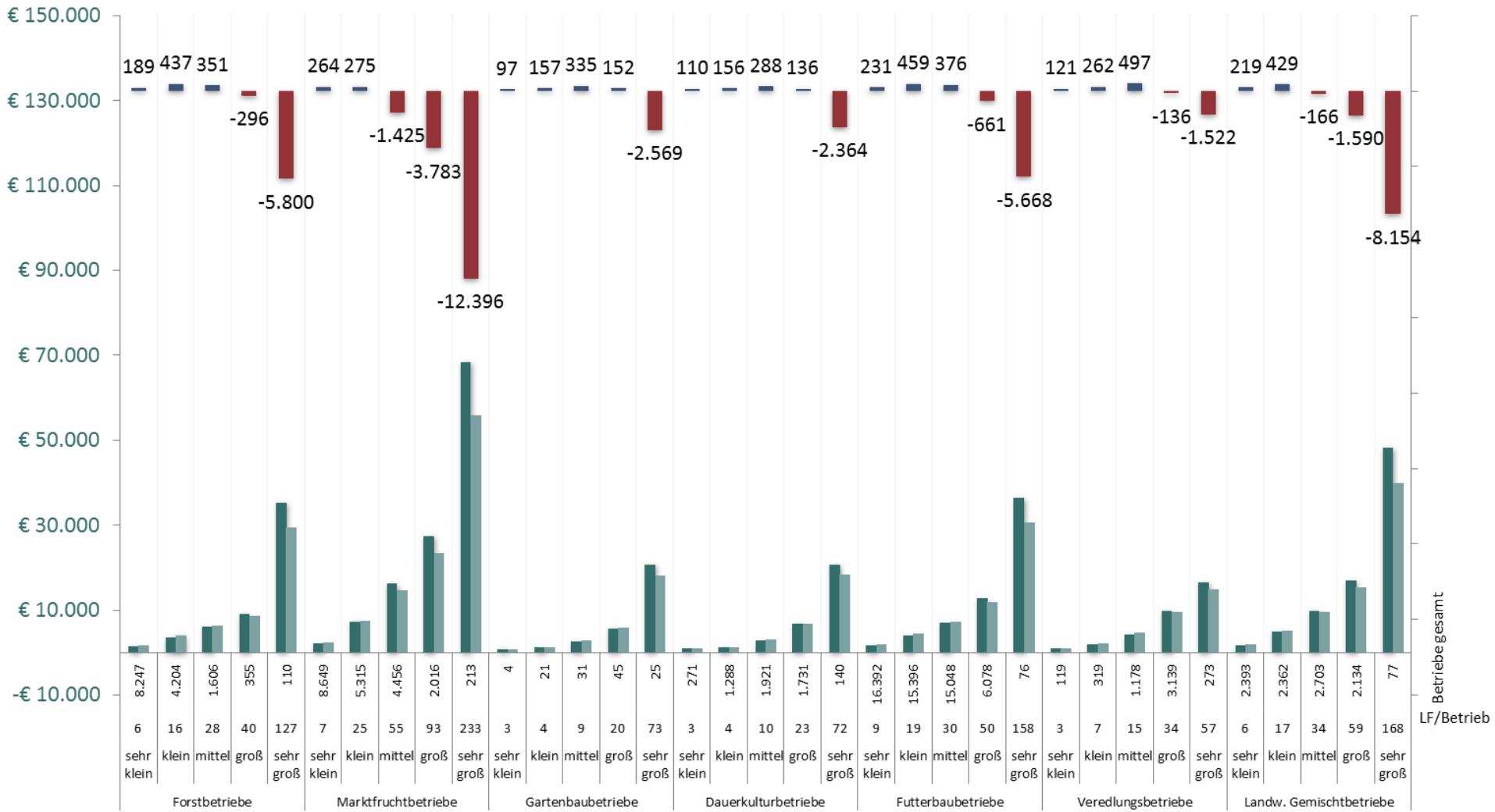
small: SO 15'-40' medium: SO 40'-100' big: SO 100'-350' LFA: Less Favoured Area

IACS-Data: Model 1 - 20 ha / EUR 100 redistri. payment (=21,04%) in EUR/labour unit

Grenze in ha **20**
 Top-Up in € **100**
 Break Even Point in ha **32,9**
 Umverteilung in % **20,1%**

DZ 2019 ohne Umverteilung je Betrieb
 DZ 2019 mit Umverteilung je Betrieb
 Änderung je Betrieb

sehr klein:	SO bis 15.000 €
klein:	SO 15.000 bis 40.000 €
mittel:	SO 40.000 bis 100.000 €
groß:	SO 100.000 bis 350.000 €
sehr groß:	SO größer 350.000 €



Discussion

Λ | w | i

- FADN-Data are a useful tool to model farm income changes caused by changes in agricultural policy measures
- Main problem – smallest and biggest farms are not covered in the FADN Sample – but the major changes will appear within these groups

Calculation of Redistribution Payment Models based on Austrian FADN-Data

PACIOLI Workshop
1st of October 2018

Dir. DI Thomas Resl, MSc.
Federal Institute of Agricultural Economics
Marxergasse 2, 1030 Wien
thomas.resl@awi.bmnt.gv.at www.agraroekonomik.at

Anteil Betriebe/SO/DIZA/AZ nach Größenklassen

Betriebsgröße	Betriebe %	SO-LW %	DIZA %	AZ %	DIZA+AZ % ohne Capping
sehr klein	33,4	4,0	9,4	21,4	12,7
klein	26,6	11,8	19,5	33,6	23,3
mittel	24,8	29,7	33,7	31,8	33,2
groß	14,3	44,9	32,5	12,7	27,1
sehr groß	0,8	9,6	5,0	0,4	3,7
Summe	100,0	100,0	100,0	100,0	100,0