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## Fab Labs in Italy: Collective Goods in the Sharing Economy

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(Article begins on next page)

TABLE 1 *Countries with at least one Fab Lab according to World Bank income classes, 2015*

Income class	Number of countries	% with at least 1 Fab Lab	% world population	% Fab Labs worldwide
High income: OECD	32	90.6	15.3	75.0
High income: non-OECD	48	25.0	4.3	7.9
Medium-high income	53	32.1	33.3	11.2
Medium-low income	51	25.5	39.1	4.9
Low income	31	16.1	8.1	1.1
All countries	215	35.3	100.0	100.0

Source: Elaboration of World Bank and FabLab Foundation data

TABLE 2 *Fab Labs in EU countries according to the innovative performance classes of the Innovation Union Scoreboard, 2015*

Classes	Number of countries	Average number of Fab Labs	Fab Labs per 10 mil. inhabs
Innovation Leader	4	9.0	4.0
Innovation Followers	8	16.0	8.6
Moderate Innovators	13	7.1	2.1
Modest Innovators	3	1.0	3.8
All EU countries	28	9.3	4.4

Source: Elaboration of Innovation Union Scoreboard (IUS) data.

FIG. 1 *Fab Labs density based on IUS innovation index, 2015*

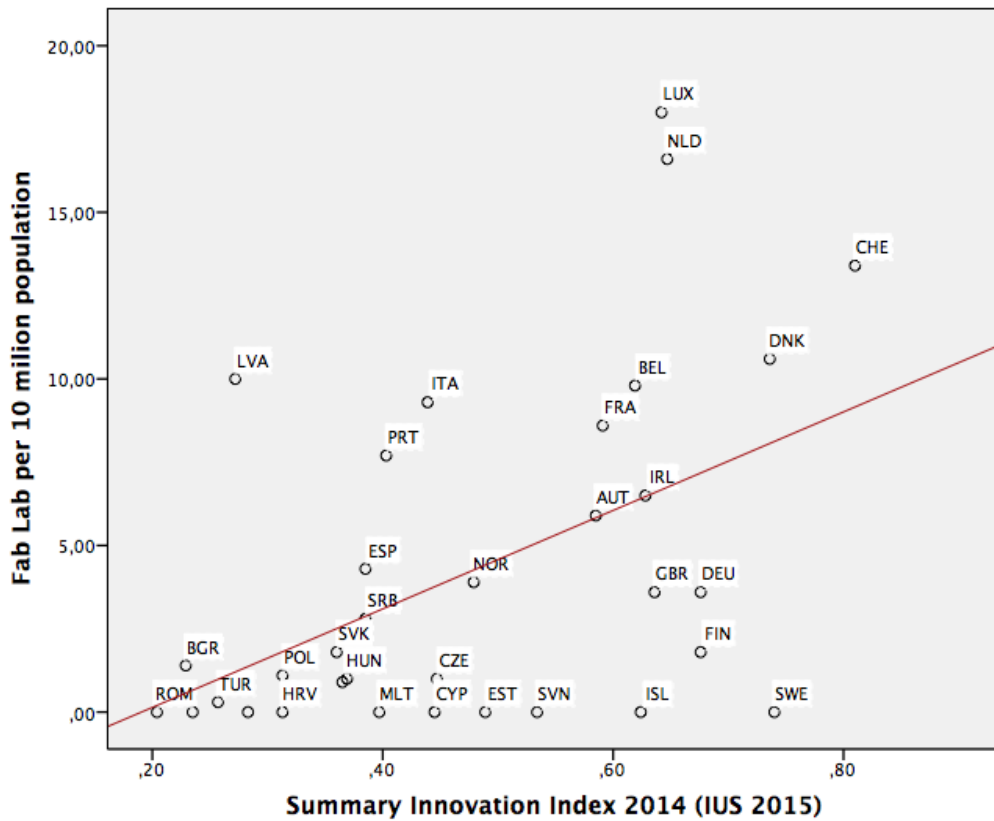


TABLE 3 *Geographical distribution of Fab Labs in Italy, 2015 (%)*

<i>Geographical distribution</i>	North West	Third Italy	Lazio	South	Total
Number of FabLabs	16	21	5	14	56
% Fab Labs out of national total	28.6	37.5	8.9	25.0	100.0
% Provinces with at least 1 Fab Lab	36.0	48.7	60.0	24.4	37.3
% Population 2012	26.6	29.6	9.3	34.5	100.0
% manufacturing companies 2011	30.1	39.4	5.4	25.0	100.0
% manufacturing employees 2011	39.1	43.0	3.8	14.1	100.0

Source: elaboration of Istat and Fab Lab Foundation data

FIG. 2 *Distribution by Province of Italian Fab Labs, 2015*

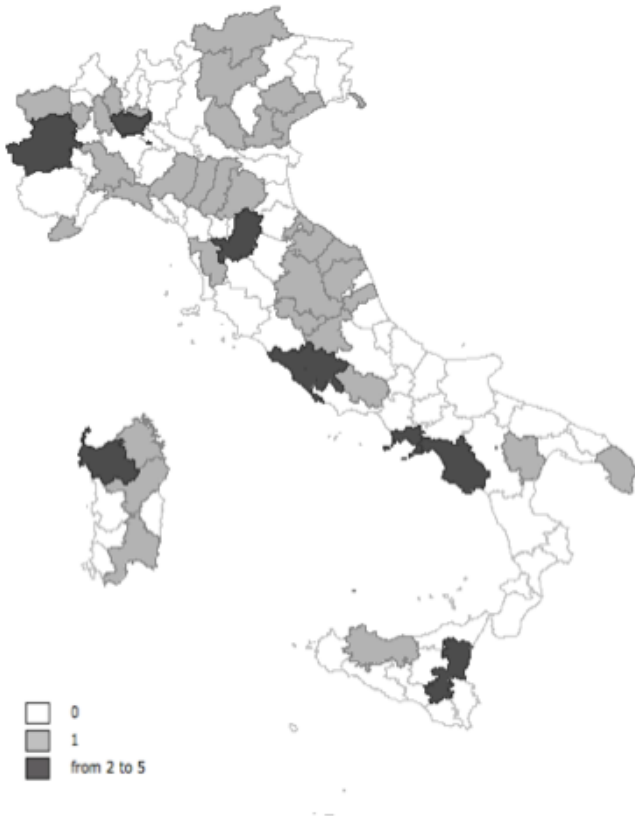


FIG. 3 *Opening year of Italian Fab Labs (absolute values)*

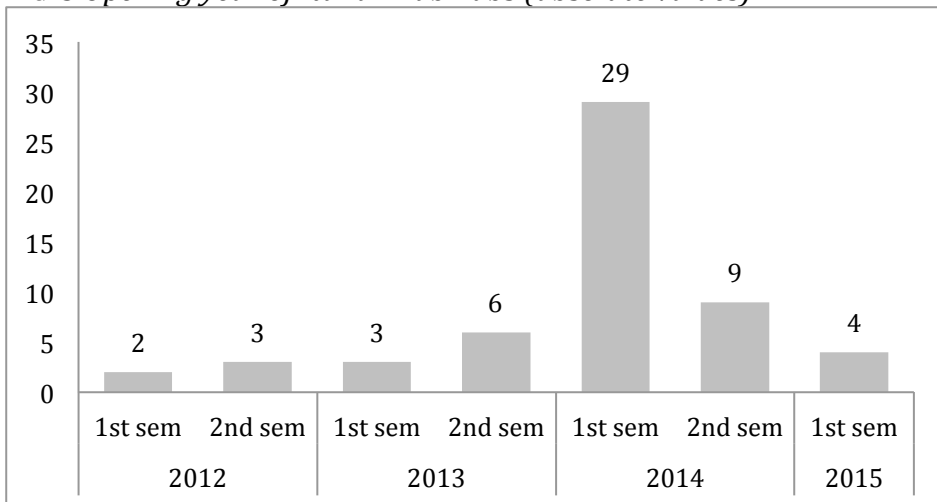


FIG. 4 *Fab Labs* typology

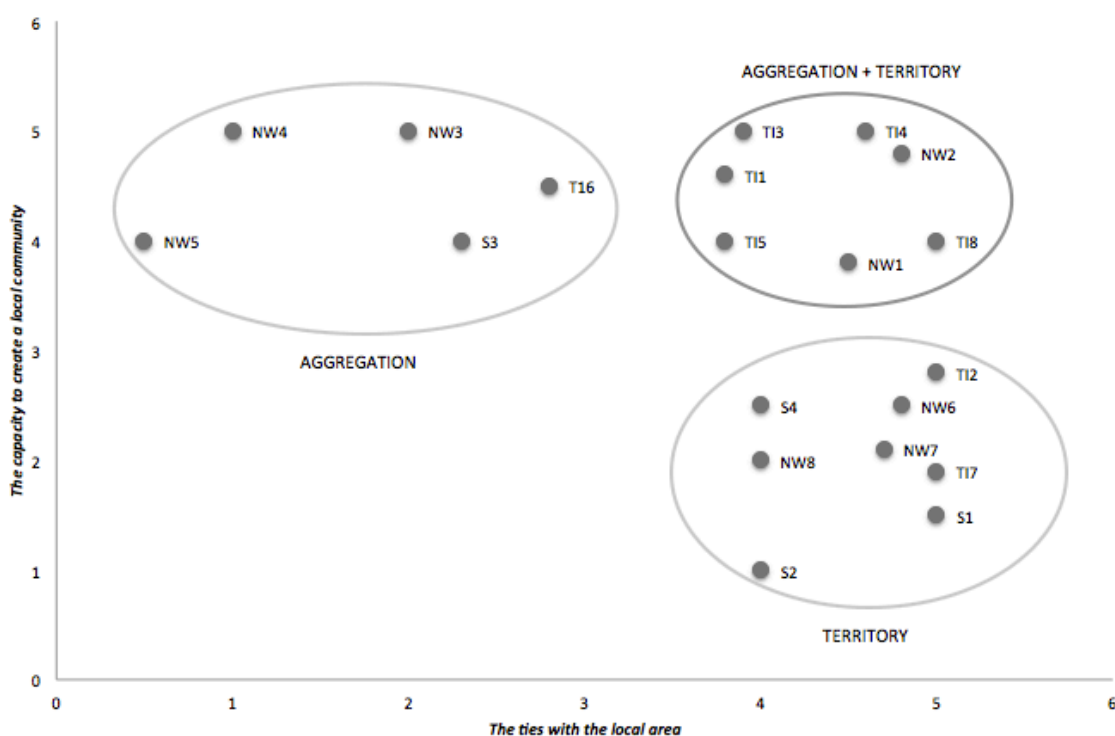


TABLE 4 *Logistic regression that predicts if a country has a Fab Lab or not*

Model summary	Nagelkerke's R <sup>2</sup>	$\chi^2$	df	Sig.	No. cases included
		,396	69,23	2	,000
Variables in the equation	B	E.S.	df	Sig.	Exp (B)
Urban Population 2010 (millions)	.001	.000	1	.000	1.000
Internet-users per 100 people 2010	.032	.007	1	.000	1.033
Constant	-2.421	.356	1	.000	.089

Source of data: World Bank

TABLE 5 *Logistic regression that predicts if a country on the Innovation Union Scoreboard is included in the high-intensive class of Fab Labs (number of laboratories per 10 million inhabitants)*

Model summary	Nagelkerke's R <sup>2</sup>	$\chi^2$	df	Sig.	No. cases included
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	.407	12.37	1	.000	34
<b>Variables in the equation</b>	<b>B</b>	<b>E.S.</b>	<b>df</b>	<b>Sig.</b>	<b>Exp (B)</b>
Gdp per capita 2014 (million euros)	.096	.035	1	.007	1.000
Constant	-2.028	.839	1	.016	.132

Source of data: Eurostat and IUS.

TABLE 6 *Logistic regression that predicts whether or not an Italian Province has a Fab Lab*

<b>Model summary</b>	<b>Nagelkerke's R<sup>2</sup></b>	<b><math>\chi^2</math></b>	<b>df</b>	<b>Sig.</b>	<b>No. cases included</b>
	.362	33.95	4	.000	110
<b>Variables in the equation</b>	<b>B</b>	<b>E.S.</b>	<b>df</b>	<b>Sig.</b>	<b>Exp (B)</b>
Added per capita value 2012	.235	.086	1	.006	1.265
Residents 2011 (in thousands)	.002	.001	1	.009	1.000
% Population with tertiary education 2011	.442	.168	1	.009	1.555
% Manufacturing companies 2011 (up to 9 employees)	.097	.047	1	.039	1.102
Constant	-14.108	4.011	1	.000	.000

Source of data: Istat

TABLE 7 *Points assigned to each Fab Lab to construct typology, scale 1-5.*

	Aggregation	Territory
NW1	3.8	4.5
NW2	4.8	4.8
NW3	5	2
NW4	5	1
NW5	4	0.5
NW6	2.5	4.8
NW7	2.1	4.7
NW8	2	4
TI1	4.6	3.8
TI2	2.8	5
TI3	5	3.9
TI4	5	4.6
TI5	4	3.8
TI6	4.5	2.8
TI7	1.9	5
TI8	4	5
S1	1.5	5
S2	1	4
S3	4	2.3
S4	2.5	4