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Tunisia's Manufacturing Sector **Machinery, Electronics, and Chemical Sector Potential**

Sebastian Bustos & Muhammed Ali Yildirim

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Tunisia's Manufacturing Sector **Machinery, Electronics, and Chemical Sector Potential**

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An overview of Tunisia

A study of Tunisia's product space reveals that the country should focus on facilitating the development of new complex products in the machinery/electrical clusters and a few products in the chemical and plastic rubber communities, particularly those that are most attractive in terms of the tradeoff between distance and complexity or Complexity Outlook Gain. Table 1 lists the target sectors that the methodology identifies as those strategic for Tunisia's future development.¹

The community with the greatest number of target products is the machinery/electrical cluster, with 15 products (HS2:84-85). The next clusters with the highest number of target products are the foodstuff cluster (with a total of 12 products, HS2:16-24) and textiles (with a total of seven products, HS2:50-63), whose products are closer in distances in terms of the country's productive knowledge and capabilities, but have on average, lower complexity. The methodology also identifies seven products in the chemical & allied industries cluster (HS2:28-38) and five in the plastics/rubbers community (HS2:39-48). Interestingly, if we consider the threshold to be at 10B, it can be seen in the table that Tunisia currently has a presence in all except two of the product categories (at the HS2 level) in the target communities.

1

Please see the introduction for a detailed methodology. <http://www.lcps-lebanon.org/publication.php?id=294&category=900&year=2017>

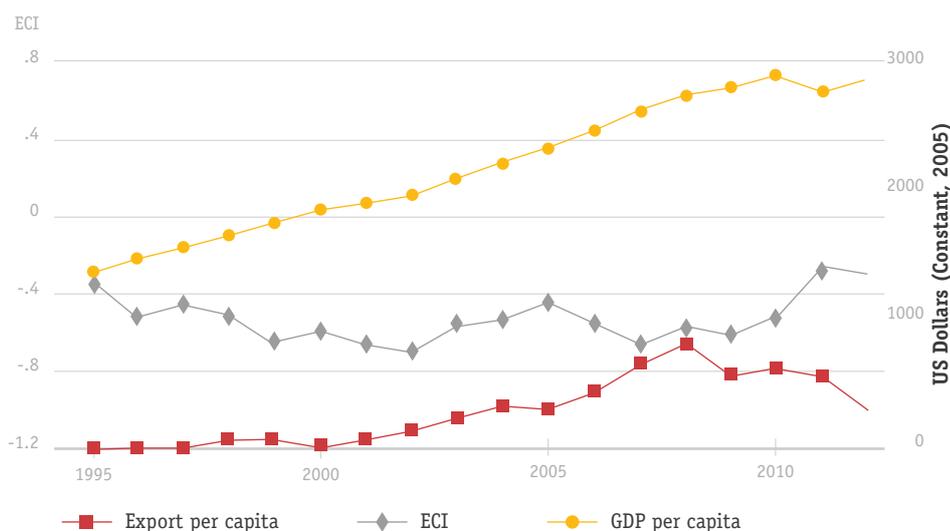
Table 1 Summary of target sectors

HS2	Product name	Product Targets	Product World Exports (\$)
84	Machinery and Mechanical Appliances, Computers, Boilers, Nuclear Reactors	15	1680 B
85	Electrial Machinery	4	607 B
34	Soaps, Waxes, Candles	3	50 B
20	Preps. of Veggies, Fruits, Nuts, Etc.	3	39 B
22	Beverages, Spirits and Vinegar	3	88 B
21	Misc. Edible Preparations	3	47 B
32	Putty and Inks, Dyes, Pigments, Paints and Putty	3	75 B
39	Plastic and Articles Thereof	3	321 B
54	Man-Made Filaments, Inc. Yarns and Woven Etc.	2	41 B
96	Misc. Manufactured Articles	2	18 B
55	Man-Made Staple Fibers, Inc. Yarns Etc.	2	31 B
40	Rubbers and Articles Thereof	2	186 B
19	Preps. of Cereals, Flour, Starch or Milk	2	21 B
64	Footwear/Gaiters and Such	1	19 B
31	Fertilizers	1	51 B
16	Ed. Prep of Meat, Fish, Crustaceans, Etc.	1	28 B
58	Special Woven Fabrics, Tufted Text. Lace	1	5 B
60	Knitted/Crocheted Fabrics	1	3 B

HS2	Product name	Product Targets	Product World Exports (\$)
56	Wadding, Felt and Nonwovens, Special Yarns, Twine, Cordage, Ropes and Cables and Articles	1	16 B
94	Furniture, Bedding, Lighting, Prefabricated Buildings	1	80 B
52	Cotton, Yarns, Woven Fabrics Thereof	1	26 B
24	Tobacco and Manuf. Tobacco Subs.	1	40 B
17	Sugars and Confectionery	1	43 B
59	Impregnated, Coated, Covered, or Laminated Text. Prod	1	21 B
30	Pharmaceutical Products	1	456 B
18	Cocoa and Cocoa Preps	1	42 B

K = thousand, M = million, B = billion

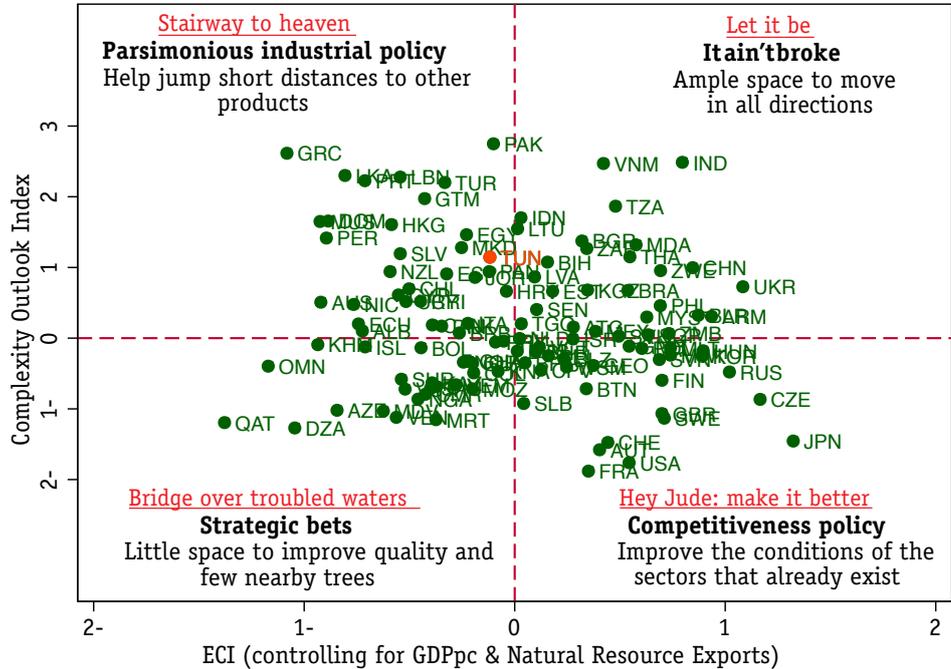
Figure 1 Evolution of Tunisia's complexity, GDP and exports



Note Own calculation using HS4-level trade data from United Nations COMTRADE, and the World Development Indicators from the World Bank Database.

Tunisia's GDP per capita increased steadily between 1995 and 2012, and only began slowing after 2008. Exports per capita also increased steadily until 2008, but has since decreased significantly. This year coincides with the global financial crisis. Tunisia's Economic Complexity Index (ECI), on the other hand, has been largely stagnant over the same period, only rising after 2008. Given that increases in exports were not associated with higher ECI, this suggests that the country was diversifying into less complex products or the country increased its exports in already existing products.

Figure 2 Summary of Tunisia in the product space

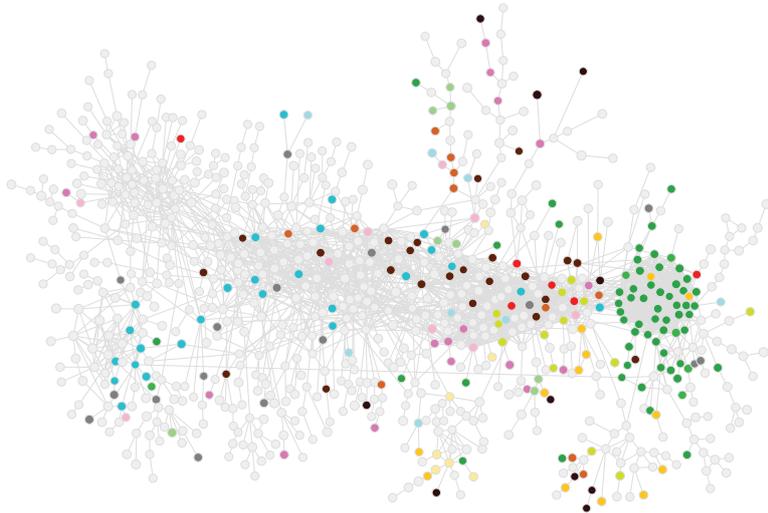


Note Own calculation using HS4-level trade data from United Nations COMTRADE, and the World Development Indicators from the World Bank Database.

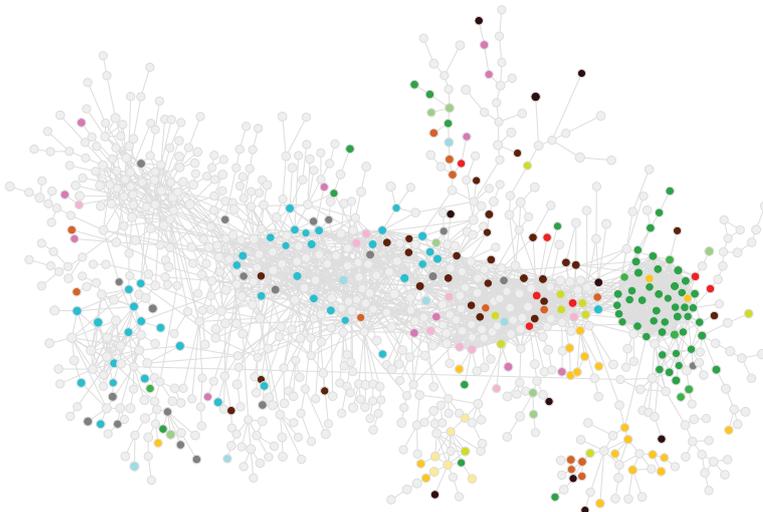
Although Tunisia's ECI has been stagnant, it is in a good position given Tunisia's GDP per capita and natural resource exports. Tunisia has the potential to climb the stairway to heaven by jumping short distances to more complex products. Therefore, Tunisia is located in the upper left quadrant of the figure, calling for what is termed parsimonious industrial policy or industrial policy 'in the small'. Countries in this quadrant should focus on providing support and public inputs (such as infrastructure, regulation, etc.) to existing industries with the aim of improving their productivity and ability to jump to nearby opportunities.

Figure 4 Tunisia on the product space

a 1995



b 2012

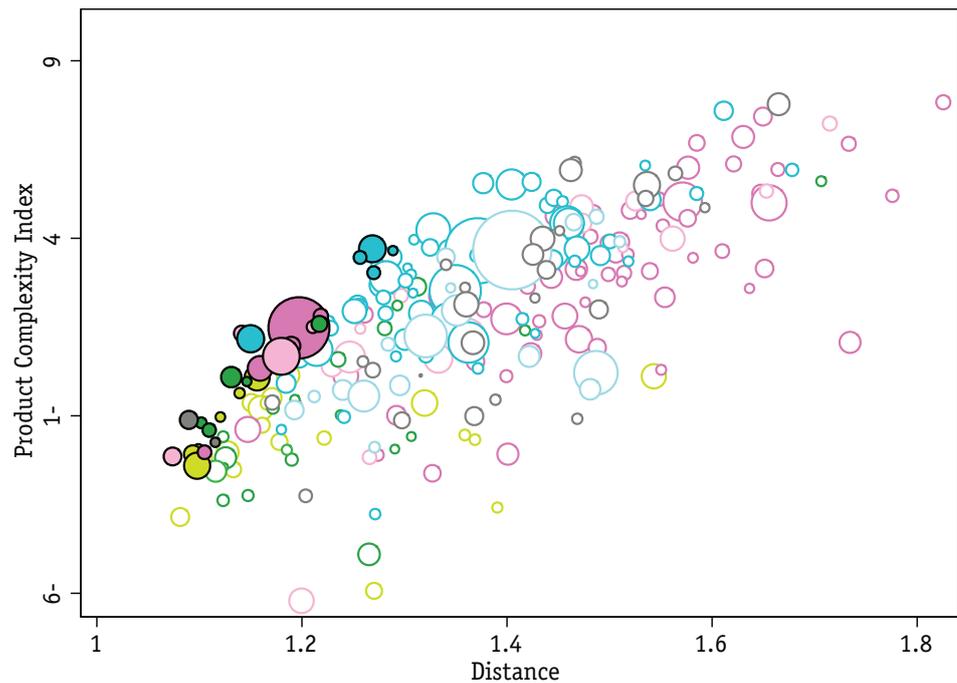


Note Own calculation using HS4-level trade data from United Nations COMTRADE. Node size is proportional to world trade. Solid colored nodes indicate the products in which Tunisia is competitive in world markets (i.e. $RCA > 1$). The nodes are colored according to the communities that they belong to.

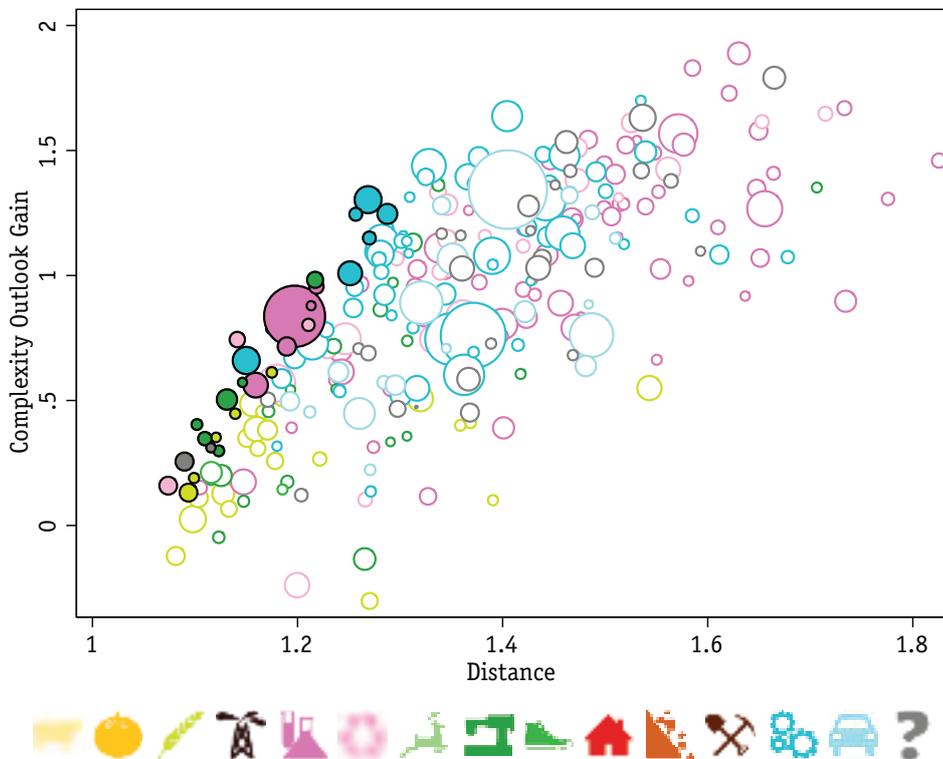
Figure 4a and 4b show Tunisia's product space in 1995 and 2012, giving a glimpse of the productive knowledge present in the country, its change over time, and what products may be nearby. Tunisia is in a good position in the product space, having a competitive presence in many products at the center. Additionally, most of the new products that have emerged since 1995 belong to the complex part of the space, like those belonging to the mechanical/electronic (blue) and chemical clusters (purple). These products can work as springboards for further diversification. Interestingly, Tunisia had, in 1995, fully captured the textile (green) cluster, and unlike other countries included in the report, still holds its presence in this industry.

Figure 5 Recommendations - Strategic bets for Tunisia

a Product Complexity Index



b Complexity Outlook Gain



Note Own calculation using HS4-level trade data from United Nations COMTRADE. Node size is proportional to world trade. Solid colored nodes indicate the strategic bets. The nodes are colored according to the communities that they belong to.

To shed light on how to increase the average complexity of a country's production, the product space analyzed above, and especially some of the emergent activities, can provide clues about what new products are feasible given Tunisia's constraints. Figures 5a and 5b highlight the products that are attractive based on PCI and Complexity Outlook Gain, respectively. A detailed description of the products in the target list is provided in table 2. These products signal to strategic clusters in Tunisia for which a parsimonious industrial policy should aim to provide support and public inputs to improve their productivity and ability to jump to new opportunities.

From the figures above it is possible to see that opportunities are mainly in the machinery, electronics, and chemical clusters. There are also several opportunities in the textile community. As a group, this community is relatively close in terms of the country possessing the inputs required for its production and therefore should be easier to 'conquer'. It should be considered, however, that these products have lower PCI or Complexity Outlook Gain, making them less desirable. On the other hand, most of the products belonging to the machinery

cluster are farther in distance. Therefore, they are harder to develop based on the present productive knowledge in the country, but have higher values of PCI and Complexity Outlook Gain. New products belonging to this community would increase the average complexity of Tunisia's export basket, compensating for the cost of developing them. In between these two clusters are a few strategic products in the chemical community which are closer in distance than most machinery products, but have higher PCI and Complexity Outlook Gain than the textile bets. By considering the tradeoff between existing productive knowledge (distance), complexity of a new product, and future diversification possibilities that the new productive knowledge will bring, a country is more likely to be successful in diversifying its product space.

Interestingly, when looking at the table, Tunisia has some presence in most of the products included in the target list ($RCA > 0$), and 13 products with $RCA > 0.5$. This leads us to believe that Tunisia is well poised to grow in these industries.

Table 2 Recommendations for Tunisia - PCI

HS4	Product name	RCA-2012	Distance	PCI	Target rank	W. Trade (\$)	Top Importers	Top Exporters
3925	Plastic builders' ware	0.7	1.1	1.3	1	9 B	USA FRA DEU	CHN DEU POL
8418	Refrigerators, freezers	0.1	1.1	1.2	2	38 B	USA DEU FRA	CHN MEX ITA
8419	Machinery, plant or laboratory equipment involving a change of temperature such as heating, cooking, roasting	0.4	1.3	3.7	3	37 B	USA CHN DEU	DEU USA CHN
8417	Industrial or laboratory furnaces and ovens, including incinerators	0.5	1.3	3.5	4	5 B	RUS CHN IND	DEU CHN ITA
1601	Sausages	0.0	1.2	1.4	5	4 B	GBR DEU JPN	DEU USA ITA
9404	Mattress supports; articles of bedding	0.5	1.1	-1.1	6	13 B	USA JPN DEU	CHN POL DEU
5402	Synthetic filament yarn	0.1	1.1	0.1	7	18 B	TUR USA CHN	CHN TWN IND
5512	Woven fabrics of > 85% synthetic staple fibers	0.4	1.1	-1.2	8	3 B	HKG CHN DEU	CHN TWN KOR
3004	Medicaments, packaged	0.1	1.2	1.5	9	331 B	USA DEU BEL	DEU USA CHE
5601	Wadding of textile materials	0.1	1.1	-0.0	10	2 B	RUS FRA JPN	ITA CHN NLD
3402	Cleaning products	0.1	1.2	0.3	10	29 B	DEU FRA GBR	DEU USA FRA
2104	Soups and broths	0.1	1.1	-0.4	12	3 B	USA GBR MEX	USA DEU CAN
3924	Plastic tableware, kitchenware or other household products	0.7	1.1	-2.1	13	13 B	USA FRA DEU	CHN DEU ITA
5509	Yarn of synthetic staple fibers	1.0	1.1	-1.4	14	6 B	TUR KOR HKG	CHN IDN IND
2007	Jams, jellies	0.1	1.1	-1.0	14	2 B	USA DEU FRA	FRA DEU BEL
2201	Waters natural	0.1	1.1	-1.9	16	3 B	HKG USA JPN	FRA CHN ITA
2008	Fruit, nuts and edible plants preserved with sugar	0.3	1.1	-2.1	18	13 B	USA DEU JPN	CHN USA THA
2105	Ice cream	0.0	1.2	0.6	18	3 B	GBR FRA DEU	DEU FRA BEL
3214	Glaziers' putty	0.5	1.2	1.8	18	7 B	DEU RUS CAN	DEU USA BEL
4011	New pneumatic tires, of rubber	0.6	1.2	0.7	20	86 B	USA DEU FRA	CHN JPN DEU
3916	Monofilament	0.2	1.2	1.5	20	5 B	FRA DEU USA	DEU TUR CHN
3405	Polishes and creams	0.0	1.2	1.6	22	2 B	KOR TWN DEU	JPN USA DEU
2106	Food preparations not elsewhere specified	0.7	1.2	0.1	23	31 B	USA GBR DEU	USA DEU NLD
3208	Paints and varnishes, nonaqueous	0.1	1.2	1.0	24	13 B	RUS CHN DEU	DEU JPN USA
9607	Slide fasteners and parts thereof	0.9	1.1	-1.7	25	2 B	CHN HKG VNM	CHN JPN TWN
3401	Soap	0.4	1.1	-2.0	27	6 B	USA CAN FRA	IDN DEU USA
8530	Electric signal, safety and traffic controls, railways, waterways, parking or airfields	0.2	1.3	3.7	27	2 B	USA CHN DEU	DEU SWE ESP
5903	Textile fabrics impregnated with plastics	0.1	1.2	1.6	27	9 B	CHN USA MEX	CHN KOR DEU
8514	Industrial or laboratory electric furnaces	0.0	1.3	3.0	29	5 B	CHN USA KOR	DEU JPN USA
1701	Raw sugar, cane	0.0	1.1	-2.4	30	35 B	USA CHN IDN	BRA THA IND
6001	Pile fabrics, including long pile fabrics and terry fabrics, knitted or crocheted	0.1	1.1	-1.6	31	3 B	KGZ MEX CHN	CHN KOR TWN

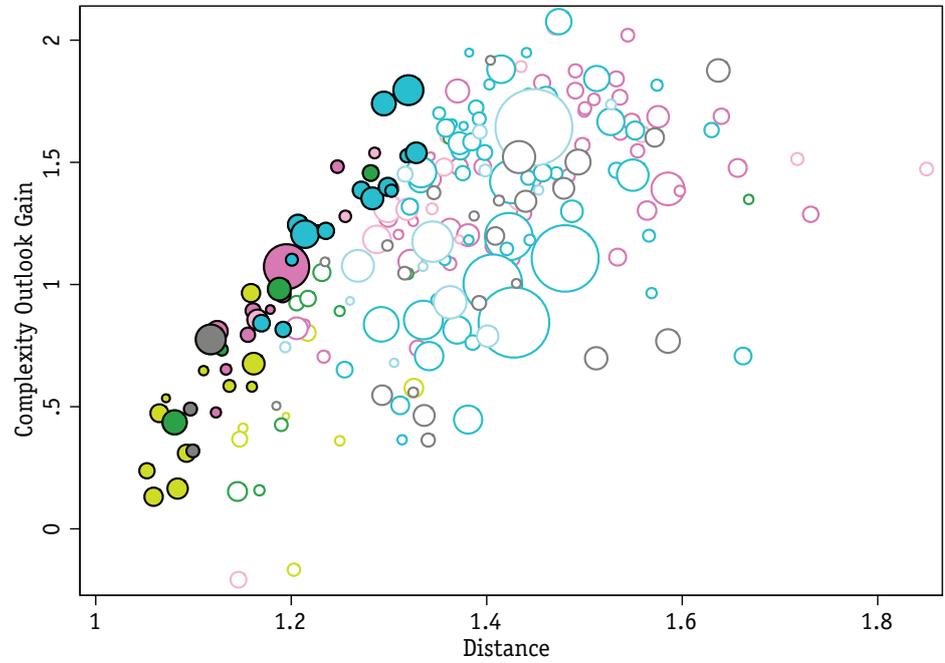
HS4	Product name	RCA-2012	Distance	PCI	Target rank	W. Trade (\$)	Top Importers	Top Exporters
8402	Steam or other vapor generating boilers	0.5	1.2	1.6	33	6 B	SAU IDN TUR	CHN KOR USA
4008	Plates, sheets, strip, rods and profile shapes, of vulcanized rubber	0.1	1.3	3.5	33	4 B	USA DEU NLD	DEU USA CHN
2009	Fruit juices	0.1	1.1	-2.2	33	15 B	USA DEU NLD	BRA CHN NLD
2401	Tobacco, raw	0.1	1.1	-3.9	36	13 B	CHN USA DEU	BRA USA IND
8415	Air conditioners	0.9	1.3	3.2	36	37 B	USA JPN DEU	CHN THA JPN
2203	Beer	0.0	1.2	-0.6	36	12 B	USA FRA GBR	MEX NLD DEU
8450	laundry-type washing machines	0.0	1.3	2.1	38	14 B	USA JPN DEU	CHN KOR ITA
8424	Mechanical appliances for dispersing liquids or powders; fire extinguishers; spray guns; steam or sand blasting machines	0.2	1.3	3.5	38	17 B	USA CHN DEU	CHN DEU USA
8432	Agricultural, forestry machinery for soil preparation	0.1	1.2	1.5	40	8 B	USA FRA RUS	DEU USA ITA
8462	Machine tools for working metal by forging; machine tools for working metal by bending, folding, straightening or flattening	0.1	1.3	2.1	41	11 B	CHN USA IND	JPN DEU ITA
8502	Electric generating sets and rotary converters	0.1	1.3	1.9	42	27 B	USA RUS GBR	CHN USA DEU
1901	Malt extract	0.1	1.2	-0.5	43	15 B	CHN GBR USA	NLD FRA DEU
8416	Furnace burners for liquid fuel	0.0	1.3	4.0	44	2 B	CHN RUS FRA	DEU ITA CHN
3102	Mineral or chemical fertilizers, nitrogenous	0.2	1.1	-1.4	46	30 B	USA IND BRA	RUS CHN UKR
2208	Alcoholic preps for beverages	0.0	1.2	-0.8	46	28 B	USA CHN RUS	GBR FRA USA
3209	Paints and varnishes, aqueous	0.1	1.2	0.9	46	6 B	CAN DEU FRA	DEU USA ITA
1904	Cereal foods	0.2	1.2	-0.6	48	5 B	USA CAN FRA	DEU USA GBR
9603	Brooms, brushes, floor sweepers, mops	0.8	1.2	-0.6	50	7 B	USA DEU JPN	CHN DEU USA
8474	Machinery for working earth, stone, and other mineral substances	0.3	1.2	0.7	50	19 B	RUS USA CHN	DEU CHN USA
1806	Cocoa powder, sweetened	0.2	1.2	0.1	50	23 B	USA FRA DEU	DEU BEL ITA

The previous exercise for the year 2000 is now repeated to identify target products given a hybrid rank that combines the ease and attractiveness of the product and to compare its results with data from 2010 to analyze whether they were developed. Figures 6a and 6c show that Tunisia has been relatively successful in jumping into products identified on the target list. It reached the benchmark of $RCA > 1.0$ in 11 of the products on the list (red). Additionally, the country also achieved some longer jumps, especially in the machinery cluster, for example with electrical boards and panels for protecting electrical circuits (8537), electrical insulators of any material (8546), and electric motors and generators (8501). These industries could be used as anchors for further diversification in this cluster. Nevertheless, there are several products (in blue), particularly in the machinery and food preparation clusters, that have high attractiveness and are also relatively easy to conquer, which were not developed in Tunisia by 2010. These are interpreted as missed opportunities. These blue products warrant special attention as they might also hint to the presence of market failures in the country. As can be seen in figures 6a and 6c, while there are products from the textile and chemical communities, most of them are in the machinery cluster. A detailed description of these products is provided in table 3.

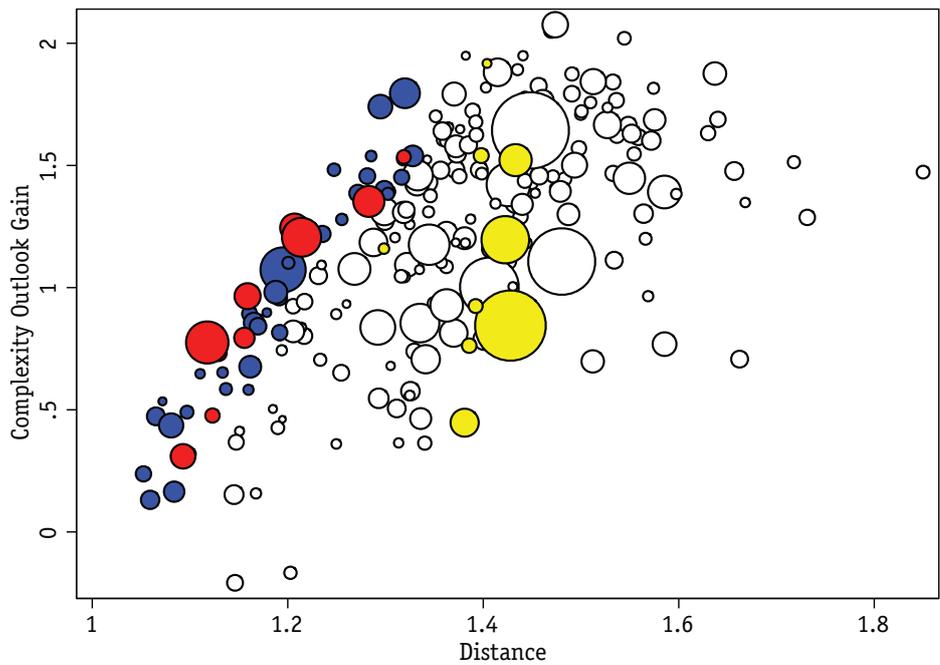
From the table it is possible to see that even though they do not reach the benchmark $RCA > 1$, many products identified increased their revealed comparative advantage value significantly, implying that the country is on the right track. Only nine products (out of the 50 identified) decreased their RCA from 2000 to 2010.

Figure 6 Strategic bets for Tunisia in year 2000

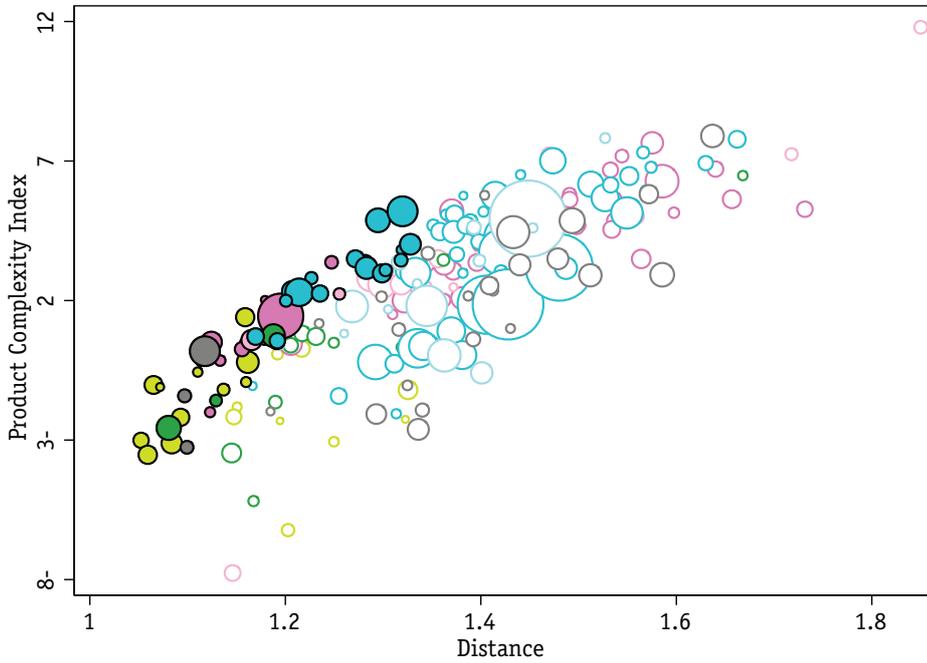
a Complexity Outlook Gain



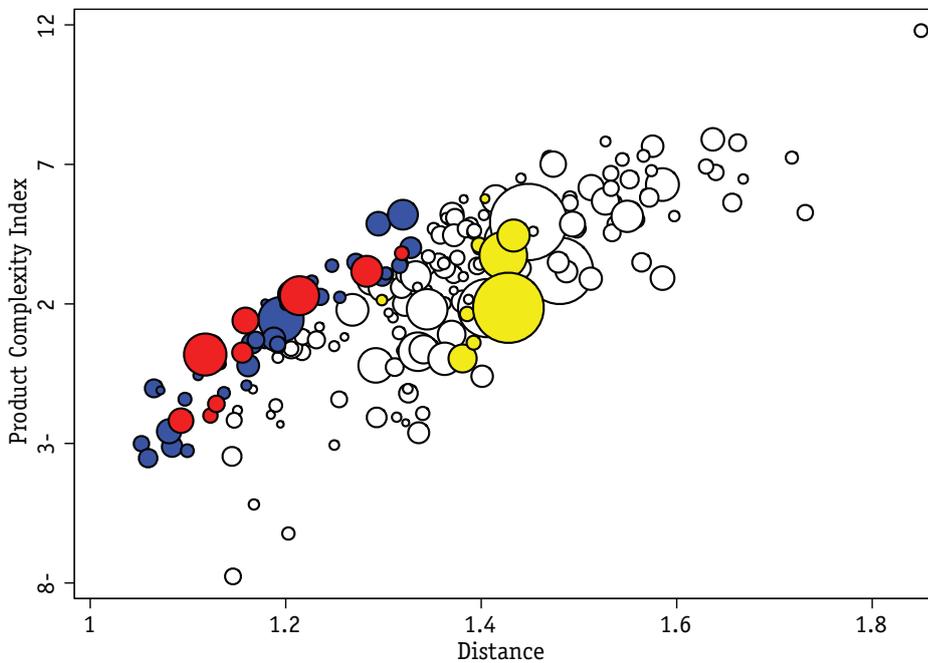
b Complexity Outlook Gain



c Product Complexity Index



d Product Complexity Index



Note Own calculation using HS4-level trade data from United Nations COMTRADE. Node size is proportional to world trade. The nodes are colored according to the communities that they belong to in (a) and (c). In figures (b) and (d), Red nodes are conquered by Tunisia and were also in our target list, Blue nodes are not conquered by Tunisia and were in our target list. Finally, Yellow nodes are conquered but were not in the target list.

Table 3 Strategic bets for Tunisia in year 2000

HS4	Product name	RCA-2000	RCA-2010	Distance	PCI	COG	W. Trade (\$)	Target rank
8419	Machinery, plant or laboratory equipment involving a change of temperature such as heating, cooking, roasting	0.2	0.3	1.3	4.9	1.7	14 B	1
1806	Cocoa powder, sweetened	0.2	1.0	1.2	1.4	1.0	7 B	2
3214	Glaziers' putty	0.5	0.6	1.2	3.4	1.5	3 B	3
3402	Cleaning products	0.4	1.0	1.1	0.5	0.8	10 B	4
8481	Appliances for thermostatically controlled valves	0.2	0.8	1.3	5.2	1.8	25 B	5
3814	Organic composite solvents and thinners	0.3	0.2	1.2	2.0	1.1	707 M	6
9401	Seats	0.8	1.7	1.1	0.2	0.8	25 B	7
2009	Fruit juices	0.2	0.3	1.1	-1.0	0.5	6 B	8
4012	Retreaded or used pneumatic tires of rubber	0.9	0.5	1.1	-0.2	0.7	940 M	9
2007	Jams, jellies	0.3	0.7	1.1	-1.1	0.5	758 M	10
5603	Nonwoven textiles	0.3	0.1	1.3	3.4	1.5	5 B	11
2104	Soups and broths	0.2	0.2	1.1	-0.6	0.6	1 B	13
8480	Molding boxes for metal foundry	0.4	1.0	1.2	2.3	1.2	9 B	13
8462	Machine tools for working metal by forging; machine tools for working metal by bending, folding, straightening or flattening	0.2	0.2	1.3	3.5	1.4	6 B	13
4008	Plates, sheets, strip, rods and profile shapes, of vulcanized rubber	0.1	0.2	1.3	3.4	1.5	2 B	15
3307	Shaving products	0.4	1.2	1.2	0.4	0.9	4 B	16
8402	Steam or other vapor generating boilers	0.0	0.0	1.2	2.8	1.2	2 B	17
3904	Polymers of vinyl chloride or of other halogenated olefins, in primary forms	0.1	0.1	1.2	0.6	0.9	9 B	18
9603	Brooms, brushes, floor sweepers, mops	0.8	0.7	1.1	-1.4	0.5	3 B	19
8501	Electric motors and generators	0.2	3.0	1.2	2.3	1.2	20 B	20
2008	Fruit, nuts and edible plants preserved with sugar	0.1	0.3	1.1	-3.0	0.2	4 B	21
8425	Pulley tackle and hoists; winches and capstans; jacks	0.5	0.4	1.2	2.0	1.1	2 B	22
3306	Dental hygiene products	0.0	0.1	1.1	-0.2	0.7	2 B	23
3305	Hair products	0.4	1.4	1.2	0.3	0.8	4 B	24
5407	Woven fabrics of synthetic filament yarn	0.3	1.5	1.1	-2.6	0.4	14 B	24
5402	Synthetic filament yarn	0.2	0.3	1.2	0.7	1.0	12 B	26
5806	Narrow woven fabrics	0.4	2.0	1.1	-1.6	0.7	2 B	27
8474	Machinery for working earth, stone, and other mineral substances	0.3	0.3	1.2	0.7	0.8	5 B	28
3405	Polishes and creams	0.0	0.1	1.2	0.6	0.9	949 M	29
2401	Tobacco, raw	0.5	0.3	1.1	-3.5	0.1	7 B	30
8537	Electrical Boards and panels for protecting electrical circuits	0.7	1.4	1.3	3.2	1.4	11 B	31

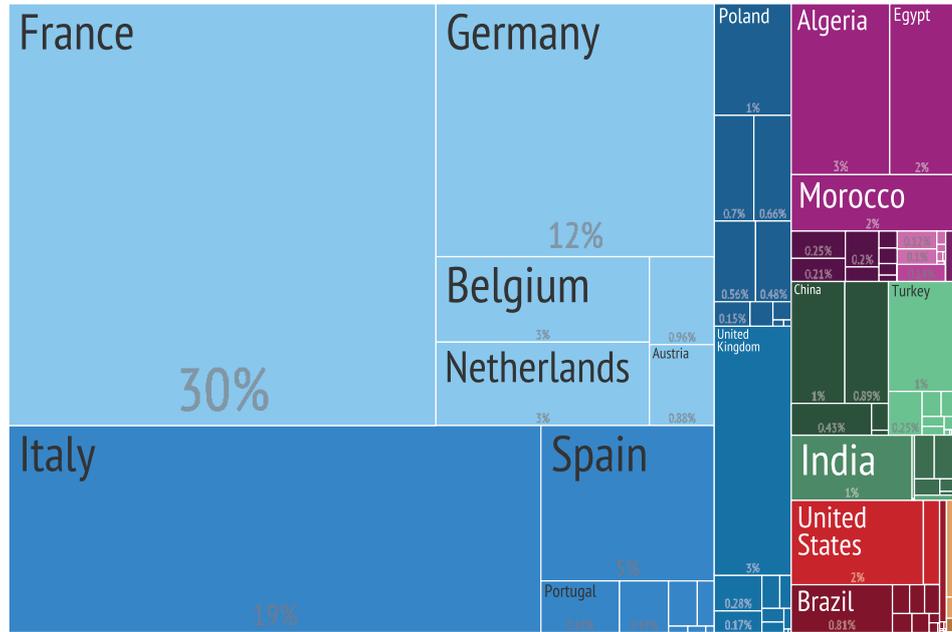
HS4	Product name	RCA-2000	RCA-2010	Distance	PCI	COG	W. Trade (\$)	Target rank
8546	Electrical insulators of any material	0.1	1.5	1.3	3.8	1.5	1 B	32
1604	Prepared or preserved fish	0.5	1.7	1.1	-2.2	0.3	6 B	33
1601	Sausages	0.0	0.0	1.2	2.0	1.1	1 B	33
3004	Medicaments, packaged	0.1	0.1	1.2	1.4	1.1	74 B	35
3003	Medicaments, not packaged	0.2	0.1	1.2	0.5	1.0	5 B	36
2101	Extracts of coffee, tea or mate	0.4	0.2	1.1	-1.2	0.6	2 B	37
1701	Raw sugar, cane	0.0	0.3	1.1	-3.1	0.2	9 B	38
8465	Machine tools for working wood	0.1	0.2	1.2	2.3	1.2	5 B	39
8406	Steam turbines and other vapor turbines	0.0	0.1	1.3	3.4	1.5	3 B	40
3406	Candles	0.0	1.2	1.1	-2.0	0.5	1 B	41
9706	Antiques older than one hundred years	0.6	0.3	1.1	-3.3	0.3	3 B	42
3916	Monofilament	0.1	0.1	1.3	2.2	1.3	2 B	43
8424	Mechanical appliances for dispersing liquids or powders; fire extinguishers; spray guns; steam or sand blasting machines	0.1	0.2	1.3	3.0	1.4	7 B	44
2208	Alcoholic preps for beverages	0.4	0.2	1.2	-0.2	0.7	11 B	45
2201	Waters natural	0.5	0.2	1.2	-0.9	0.6	1 B	46
8426	Ships' derricks; cranes	0.1	0.2	1.2	0.6	0.8	4 B	47
8459	Machine tools for drilling, boring or milling by removing metal	0.1	0.9	1.3	3.1	1.4	2 B	48
8466	Parts and accessories for metal working machines	0.0	0.6	1.3	4.0	1.5	9 B	49
8607	Parts of railway locomotives	0.0	0.0	1.3	3.4	1.5	4 B	50

Tunisia's export destinations

Lastly, possible export markets for Tunisia are analyzed. As can be observed in Figure 7a, Tunisia mainly exports to European countries. The major destination of Tunisia's exports is France, where 30% of its exports go, followed by Italy (19%) and Germany (12%). Figure 7b shows that exports to Middle Eastern, North American, and Asian countries are relatively low.

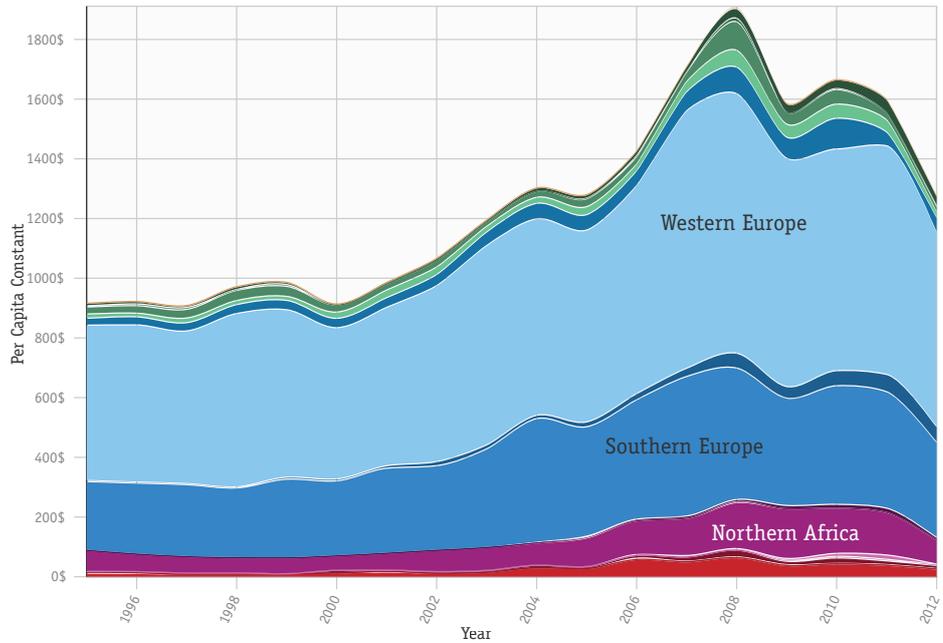
Figure 7 Tunisia trade partners (2012)

a Export destinations



Tunisian exports totaling approximately \$15.3 billion

b Evolution of export destinations



Note Own calculation using HS4-level trade data from United Nations COMTRADE. Products are colored according to the communities that they belong according to the following legend:



When taking into account the current trade of countries in eligible products versus potential, it is possible to identify top export destinations for a country. Table 4 presents potential trade with those export destination countries as well as the potential of other countries included in this report. From the table it follows that Tunisia can increase its trade with Arab countries and that there are unexploited markets in Eastern Asia. Additionally, its exports to major European countries, such as United Kingdom and Germany, are not at a very healthy level.

Table 4 Trade potential

Importer	Trade Health	Number of Eligible Products	Potential in Eligible Products (\$)	Current Trade in Eligible Products (\$)	Total Trade (\$)
ARE	0.1	37	88 M	12 M	40 M
CHL	0.0	9	15 M	189 K	384 K
CHN	0.4	8	13 M	49 M	73 M
DEU	0.4	55	156 M	1 B	1 B
DZA	0.8	30	4 M	113 M	233 M
EGY	0.2	19	8 M	72 M	76 M
GBR	0.4	48	259 M	265 M	338 M
HKG	0.0	9	137 M	3 M	6 M
IRQ	0.7	3	3 M	5 M	6 M
JOR	0.9	15	3 M	4 M	8 M
JPN	0.1	31	295 M	45 M	56 M
KWT	0.0	2	171 K	7 K	548 K
LBN	1.1	35	3 M	10 M	12 M
LBY	1.1	38	3 M	109 M	257 M
SAU	0.0	12	28 M	59 M	69 M
SYR	1.1	4	74 K	9 M	11 M
TUR	0.4	33	31 M	303 M	315 M
USA	0.1	37	1 B	88 M	146 M
YEM	0.5	3	547 K	1 M	2 M

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