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# Global Tank Storage Assets

The Power of Market Intelligence

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TANKTERMINALS.COM

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## Chapter 1: In which region is capacity per terminal the highest?

### 1.0 Introduction

All over the world, there are independent tank storage companies that support market players in storing their oil products. They help oil companies that have downstream obligations with storing products or support trading companies seizing (arbitrage) opportunities or governments and oil companies with building their strategic reserves. Tank terminals have an important of not a primary function in the oil and gas value chain.

### 1.1 Terminals per region

At time of writing, the TankTerminals.com database consist of 4.628 tank terminals per geographical region. This number is not evenly spread over these regions. The applicable regions are Africa, Asia, Europe, Middle East, Oceania, North America, Central America and South America. In table 1, you can see the number of terminals per region.

TABLE 1: TERMINALS PER REGION

Geographical region	# terminals	# tank	Market share
Africa	181	2.664	4%
Asia	858	22.432	19%
Europa	1100	28.733	24%
Middle East	126	2.696	3%
Oceania	71	1.477	2%
North America	1640	26.566	35%
Central America	198	3.777	4%
South America	454	7.254	10%

From this table can be derived that most terminals are located in the US (1.640) followed by Europe (1.100) and Asia (858). Smaller regions with respect to terminals are Middle East (126), Africa (181) and Oceania (71).

When analyzing tank storage capacity per region and per terminal, some clear distinctions can be found as can be seen from table 2.

TABLE 2: CAPACITY PER REGION AND PER TERMINAL

Geographical region	Capacity (cbm)	Market share	# tanks / terminal	Av. Cap. (cbm)
Africa	30.600	3%	15	169
Asia	323.534	34%	26	377
Europa	265.392	27%	26	241
Middle East	48.113	5%	21	382
Oceania	4.302	0.4%	21	61
North America	221.566	23%	16	135
Central America	39.447	4%	19	199
South America	32.492	3%	16	72

### 1.2 Tanks per terminal and average capacity

In table 2 can be seen that most storage capacity is currently in Asia (323.534, 34%), followed by Europe (265.392, 27%) and North America (221.566, 23%). Because of this perspective the top 3 has reshuffled and makes Asia, the region with most tank storage capacity.

When combining table 1 and table 2 the following charts can be derived: chart 1 tanks per terminal per region and chart 2 Average capacity per region.

CHART 1 TANKS PER TERMINAL

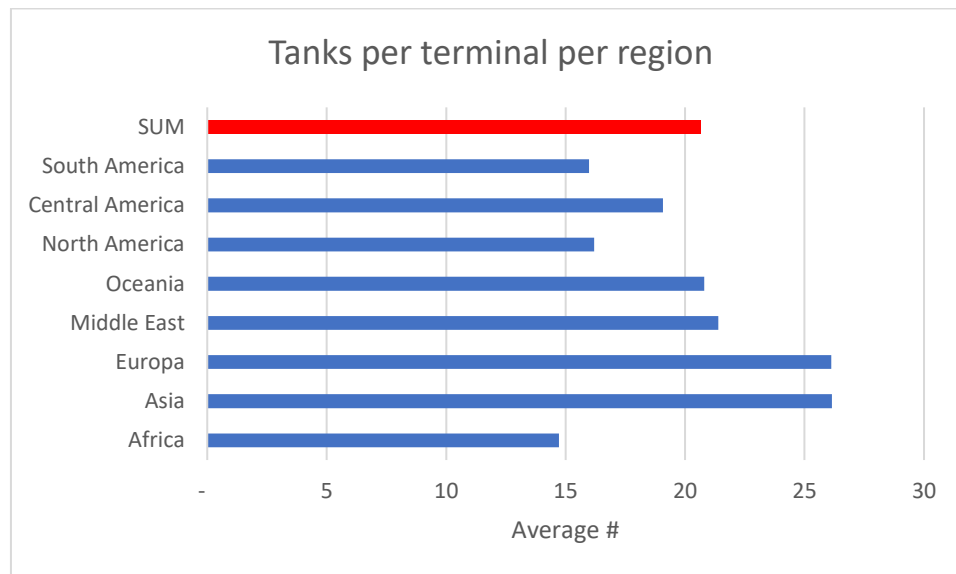


CHART 2 AVERAGE CAPACITY PER REGION

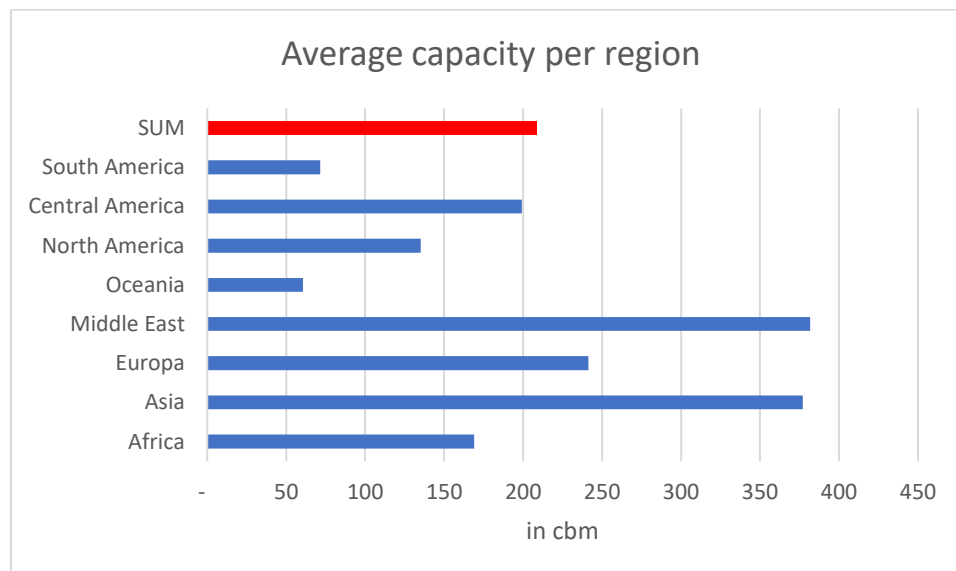


Chart 1 shows that Asia and Europe have the most tanks per terminal. Both regions have 26 tanks per terminal. Middle East and Oceania follow by 21 tanks per terminal.

In chart 2 can be seen that the Middle East holds the most capacity per terminal. In the case of this region the average capacity per terminal is 382cbm. A good second place has been taken in by Asia with 377cbm. The third place is for Europe with 241cbm. The average capacity per terminal globally is 209cbm. This means that in Central America (199cbm), Africa (169cbm), North America (135cbm), South America (72cbm) and Oceania (61cbm).

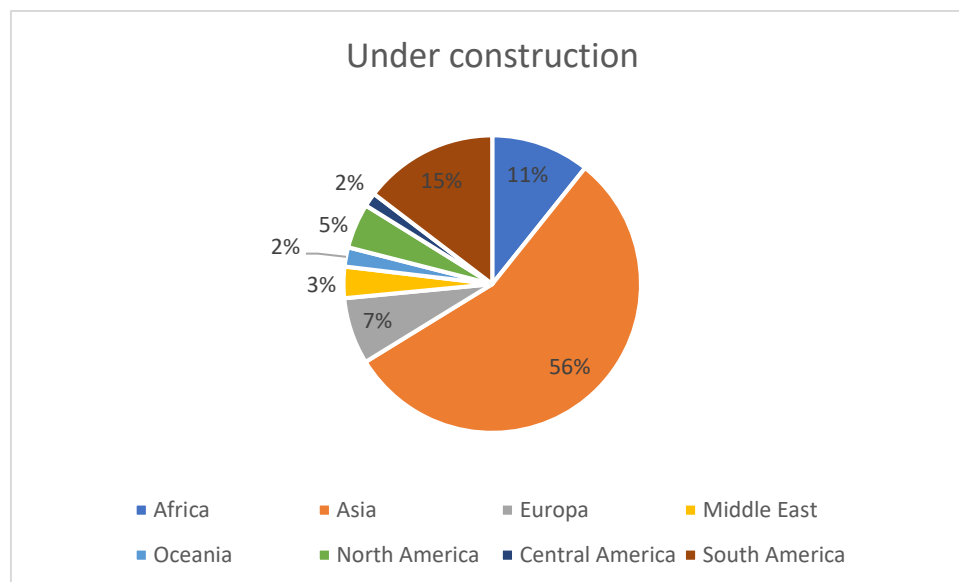
The reason behind this ordering, although not part of this analysis, is that tank terminals in the Middle Eastern Asian region are new compared to more matured tank terminal regions such as Europe. Furthermore, especially in the case of the Middle East national governments have a stake in these assets. Both variables have led to the build of assets with a larger average capacity.

## Chapter 2: In which region is the most capacity under construction and expansion

### 1.0 Under construction

In chart 3 can be seen that in total there is 37.529kcbm under construction. The most tank storage capacity is in Asia. This is around 20.829kcbm or 56% of the total capacity. The Asian region is followed by South America (5.491kcbm or 15%) and Africa (4.027kcbm or 11%). Other more mature regions with respect to tank storage assets (Europe and North America) have only little capacity under construction. This ranges between 2% and 7%.

CHART 3 UNDER CONSTRUCTION

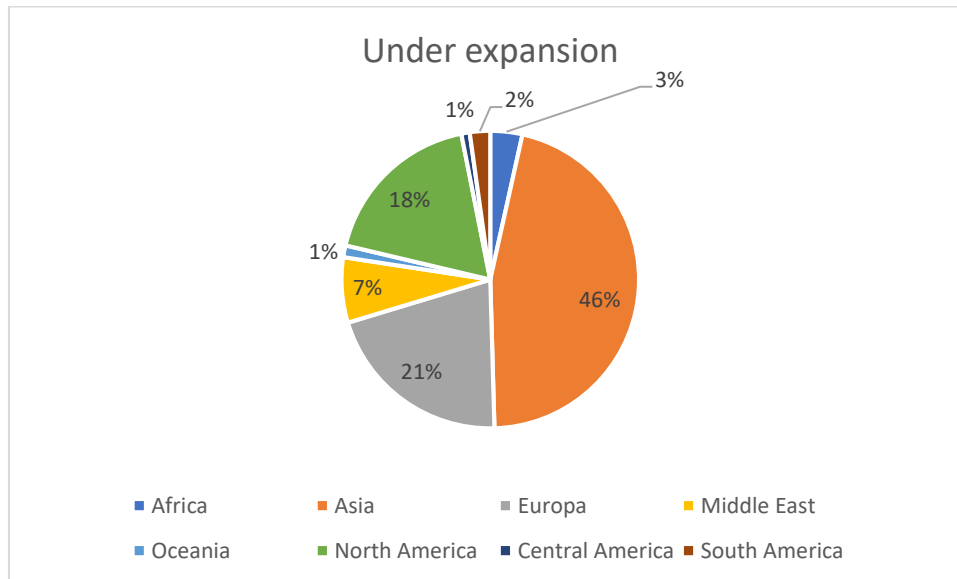


Some examples of major projects in Asia are from Brightoil in China. According to the latest news, in Dalian the capacity that is under construction is 4.800kcbm and Zhoushan is 1.200kcbm. Another major project is the joint venture between Petronas and Vopak of 2.100kcbm which will be commissioned in 1Q19.

### 1.1 Under expansion

Chart 4 shows that in total there is 20.461kcbm under expansion. Also in this case, Asia is the region where the most tank storage capacity is under expansion. Around 9.427kcbm or 46% of capacity is under expansion. Asia is followed by Europe (4.250kcbm or 21%) and North America (3.720kcbm or 18%). Other regions have little capacity under expansion which ranges between 1% and 7%.

CHART 4 UNDER EXPANSION

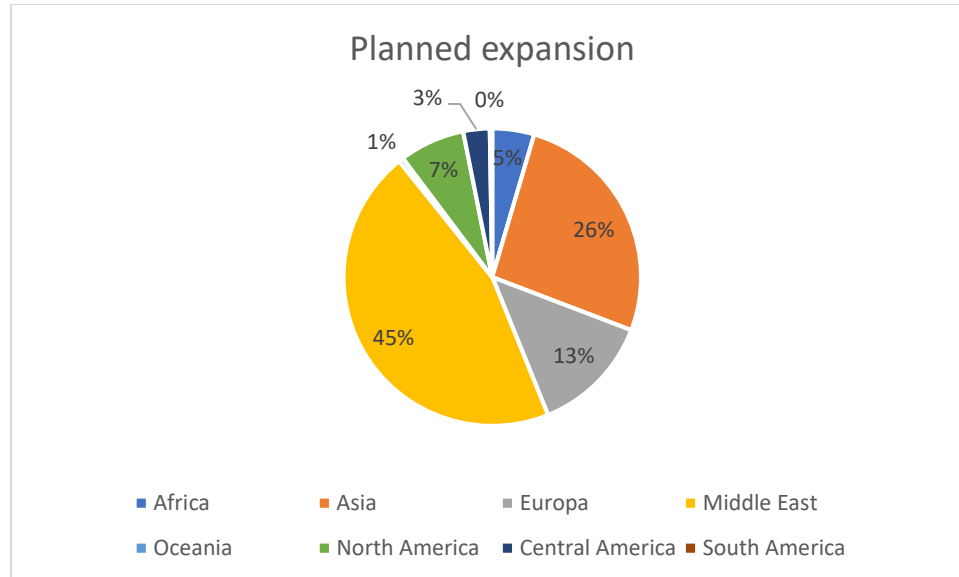


## Chapter 3: Where are the most storage investments planned?

### 1.0 Planned expansion

In figure 1 can be seen that most of the expansions are planned in the Middle East with 45% of the planned expansion allocated in this region. This region is followed by Asia with more than 25% of the planned expansions and Europe with more than 10% of the planned expansions. North America, Central America and Africa are other regions that have some expansions planned.

CHART 5 PLANNED EXPANSION



In terms of capacity we are talking about almost 40.000kcbm in the Middle East. Asia follows with more than 20.000kcbm and Europe with around 12.000kcbm. The other regions have all less than 6.500kcbm expansions planned.

When we sum all capacity projects that are under construction, under expansion or planned the main growth area is the Middle East that will practically double in capacity. Other relatively fast growing tank storage areas are Africa and Oceania. In absolute terms, capacity growth in these regions are small.

**Curious to learn more about the global tank storage industry and what the value is from these statistics for your business, [contact me](#).**

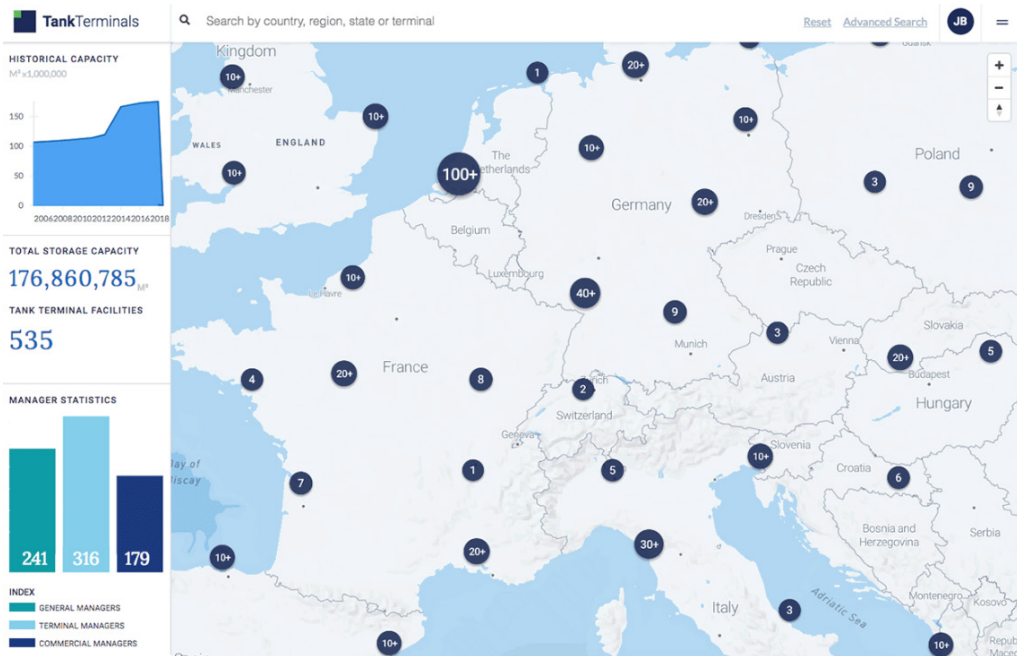
Jacob van den Berge, Market & Sales Manager TankTerminals.com & PJK International

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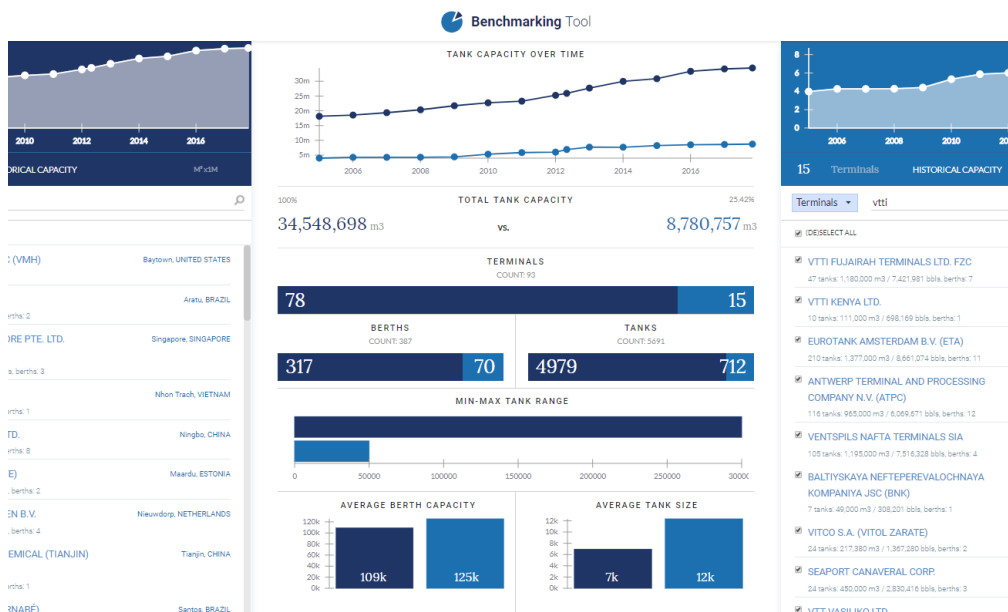
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