

26 YEARS ON ARTIFICIAL GRASS



NORWAY





- 4,5 mill. inhabitants
- 86 km² each
- 500.000 in the capital, Oslo, our far largest city
- 386.975 km²
- length 1880 km



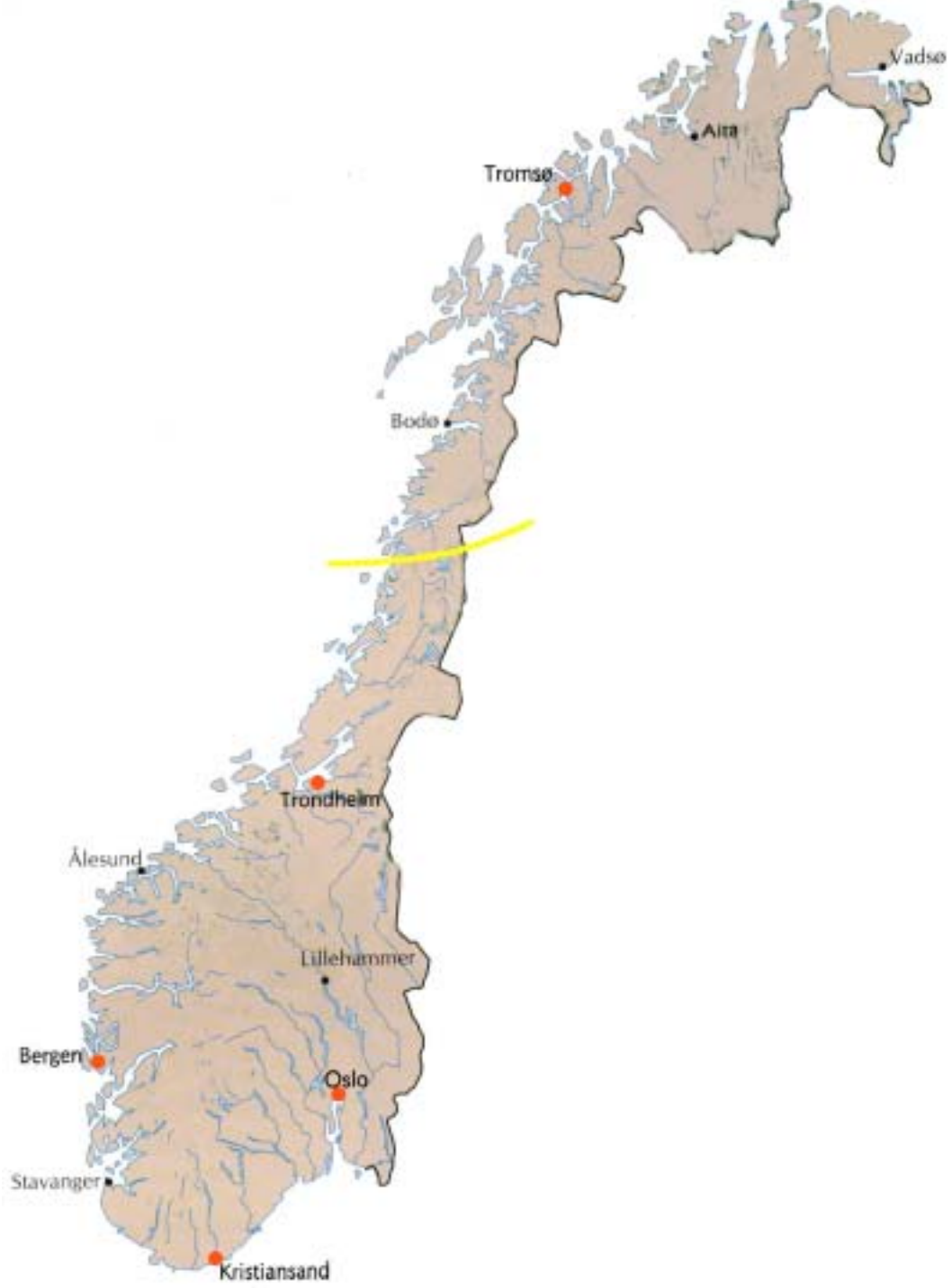
- 500 000 members
- 80 000 of them are girls
- more than 300 000 matches a year
- almost 2000 clubs
- 325 000 active players
- 20 000 teams
- 100 000 voluntary workers
- 150 artificial pitches

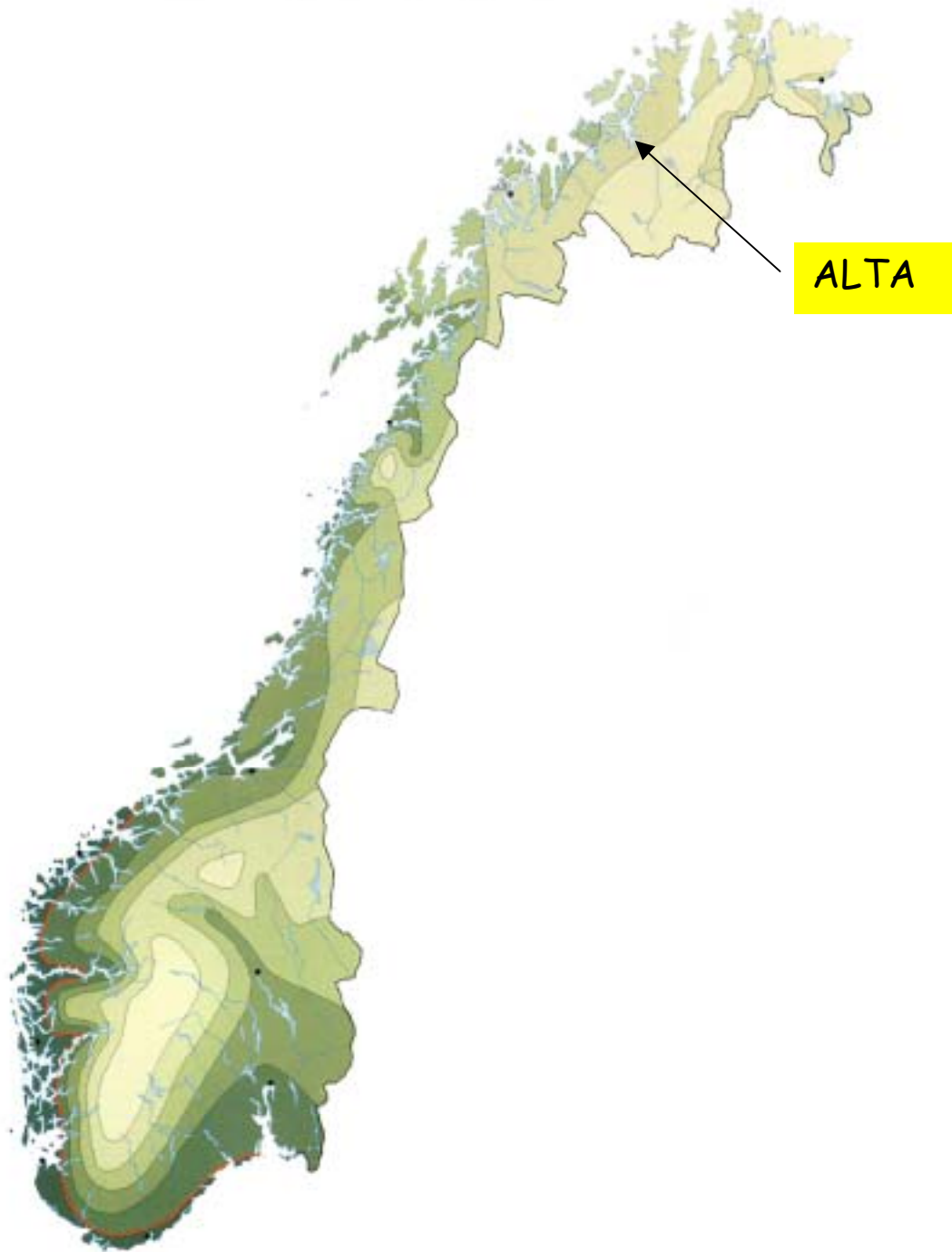


NFF's AIM

Give everyone who want to play football
access to good quality pitches for
matches and training,
both in- and outdoor.











CHALLENGES

- THE CLIMATE GIVES US GREAT CHALLENGES IN THE WINTERTIME
- WE CAN'T DO ANYTHING ABOUT THE WEATHER, BUT WE CAN DO SOMETHING TO PROTECT US FROM IT



2014
Coca-Cola

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TESTS





NEWCASTLE UNITED













The number of days in the football season outside the grass growing period in Norway 1999-2001

| STADIUM | AVERAGE DAYS IN THE FOOTBALL SEASON | | |
|----------------------|-------------------------------------|--------|-------|
| | SPRING | AUTUMN | TOTAL |
| Alfheim, Tromsø | 52 | 31 | 83 |
| Aspmyra, Bodø | 28 | 20 | 48 |
| Lerkendal, Trondheim | 38 | 42 | 80 |
| Molde | 19 | 10 | 29 |
| Åråsen, Lillestrøm | 9 | 8 | 17 |
| Nadderud, Oslo | 12 | 17 | 29 |
| Marienlyst, Drammen | 8 | 18 | 26 |
| Odd, Skien | 12 | 12 | 24 |
| Stavanger | 23 | 0 | 23 |
| Kristiansand | 4 | 0 | 4 |

The number of matches in the football season outside the grass growing periode in Norway 1999-2001

| STADIUM | MATCHES BEFORE, DURING AND AFTER THE GRASS GROWING PERIOD 1999-2001 | | | |
|----------------------|---|--------|-------|-------|
| | BEFORE | DURING | AFTER | TOTAL |
| Alfheim, Tromsø | 14 | 26 | 7 | 47 |
| Aspmyra, Bodø | 11 | 40 | 3 | 54 |
| Lerkendal, Trondheim | 8 | 63 | 11 | 82 |
| Molde | 7 | 62 | 4 | 73 |
| Åråsen, Lillestrøm | 4 | 55 | 4 | 63 |
| Nadderud, Oslo | 4 | 105 | 5 | 114 |
| Marienlyst, Drammen | 3 | 75 | 6 | 84 |
| Odd, Skien | 5 | 73 | 5 | 83 |
| Stavanger | 7 | 83 | 0 | 90 |

COST PR. USED HOUURE FOR TOP CLUBS STADIUM

| | | |
|-----------------|---------|---|
| • Brann stadion | 5.000,- | E |
| • Alfheim | 3.600,- | E |
| • Åråsen | 3.600,- | E |
| • Lerkendal | 2.700,- | E |
| • Nadderud | 1.800,- | E |
| • Marienlyst | 1.100,- | E |
| • Molde | 600,- | E |















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Hawk
CLUB

Bunker

Oil

BURGER
KING



BURGER KING

Mack









ALLS
Gram













NORWEGIAN FOOTBALL ASSOCIATION

- Accepted artificial grass for 15 years, all division's except P.L.
- In premiere league from 2003
- UEFA-standard top 3 division's men and top 2 division's women
- Class 2 for grassroots football
- Underheating system from 2002

BASED ON

- Testing artificial grass in lab., field, and by top players for 23 years
- More and more acceptance by players and trainers
- Acceptance by UEFA and FIFA

ADVANTAGES

- More use of the pitches and stadiums for matches and training
- Multi use of stadiums
- Always proper line markings
- Never cancel matches due to rain
- Better TV-product
- Lower running costs pr. hour

ONGOING PROJECKTS

- Lab. tests
- Field-testing new and "old" pitches
- Field-tests on natural grass pitches
- Testing with top level players
- Nordic working group
- Influence on the environment
- Fire
- Publishing litterture about building
- and maintenancing pitches









<http://www.dynamo.kiev.ua>

ADEATER